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| Номер вывода кристалла | Обозначение вывода крсталла | Номер вывода корпуса | Обозначение вывода корпуса |
| A2 | NC |  |  |
| A3 | NC |  |  |
| A4 | NC |  |  |
| A5 | GND\_ESD\_PLL | V2 | AGND\_MODEM\_PLL |
| A6 | GND\_CP | V2 | AGND\_MODEM\_PLL |
| A7 | AVDD\_CP | U2 | AVDD\_MODEM\_PLL |
| A8 | AVDD\_PLL | U2 | AVDD\_MODEM\_PLL |
| A9 | GND\_PLL | V2 | AGND\_MODEM\_PLL |
| A10 | AVDD\_VR\_PLL | U2 | AVDD\_MODEM\_PLL |
| A11 | GND\_VR\_PLL | V2 | AGND\_MODEM\_PLL |
| A12 | VR\_PLL\_OUT | T4 | CVDD\_MODEM\_PLL |
| A13 | CVDD\_PLL | T4 | CVDD\_MODEM\_PLL |
| A14 | CVDD\_VCO | A4 | CVDD\_PLL |
| A15 | GND\_ESD\_PLL | V2 | AGND\_MODEM\_PLL |
| A16 | NC |  |  |
| A17 | NC |  |  |
| A18 | NC |  |  |
| A19 | NC |  |  |
| A20 | NC |  |  |
| A21 | NC |  |  |
| A22 | NC |  |  |
| A23 | NC |  |  |
| A24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| A25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| A26 | NC |  |  |
| A27 | NC |  |  |
| A28 | NC |  |  |
| A29 | NC |  |  |
| A30 | NC |  |  |
| A31 | NC |  |  |
| A32 | NC |  |  |
| A33 | APP\_SCL | C8 | SCL |
| A34 | APP\_SDA | C9 | SDA |
| A35 | NC |  |  |
| A36 | APP\_SSI\_nCS\_3 | B9 | SPI\_nCS[3] |
| A37 | APP\_SSI\_nCS\_2 | B8 | SPI\_nCS[2] |
| A38 | APP\_SSI\_nCS\_1 | A9 | SPI\_nCS[1] |
| A39 | APP\_SSI\_nCS\_0 | B10 | SPI\_nCS[0] |
| A40 | APP\_SSI\_MISO | A10 | SPI\_MISO |
| A41 | APP\_SSI\_MOSI | A11 | SPI\_MOSI |
| A42 | APP\_SSI\_SCK | B11 | SPI\_SCK |
| A43 | NC |  |  |
| A44 | NC |  |  |
| A45 | APP\_QSPI\_nWP | B13 | QSPI\_nWP\_D2 |
| A46 | APP\_QSPI\_MISO | A14 | QSPI\_MISO\_D1 |
| A47 | APP\_QSPI\_MOSI | B14 | QSPI\_MOSI\_D0 |
| A48 | APP\_QSPI\_SCK | A12 | QSPI\_SCK |
| A49 | APP\_QSPI\_nCS\_3 | C14 | QSPI\_nCS[3] |
| A50 | APP\_QSPI\_nCS\_2 | C13 | QSPI\_nCS[2] |
| A51 | APP\_QSPI\_nCS\_1 | C12 | QSPI\_nCS[1] |
| A52 | APP\_QSPI\_nCS\_0 | B12 | QSPI\_nCS[0] |
| A53 | APP\_QSPI\_nHOLD | A13 | QSPI\_nHOLD\_D3 |
| A54 | NC |  |  |
| A55 | APP\_WDT | B15 | WDT |
| A56 | NC |  |  |
| A57 | NC |  |  |
| A58 | NC |  |  |
| A59 | NC |  |  |
| A60 | NC |  |  |
| B1 | NC |  |  |
| B2 | NC |  |  |
| B3 | NC |  |  |
| B4 | NC |  |  |
| B5 | GND\_ESD\_PLL | V2 | AGND\_MODEM\_PLL |
| B6 | GND\_CP | V2 | AGND\_MODEM\_PLL |
| B7 | AVDD\_CP | U2 | AVDD\_MODEM\_PLL |
| B8 | AVDD\_PLL | U2 | AVDD\_MODEM\_PLL |
| B9 | GND\_PLL | V2 | AGND\_MODEM\_PLL |
| B10 | AVDD\_VR\_PLL | U2 | AVDD\_MODEM\_PLL |
| B11 | GND\_VR\_PLL | V2 | AGND\_MODEM\_PLL |
| B12 | VR\_PLL\_OUT | T4 | CVDD\_MODEM\_PLL |
| B13 | GND\_PLL | V2 | AGND\_MODEM\_PLL |
| B14 | GND\_VCO | U4 | CGND\_MODEM\_PLL |
| B15 | GND\_ESD\_PLL | V2 | AGND\_MODEM\_PLL |
| B16 | NC |  |  |
| B17 | NC |  |  |
| B18 | NC |  |  |
| B19 | NC |  |  |
| B20 | NC |  |  |
| B21 | NC |  |  |
| B22 | NC |  |  |
| B23 | NC |  |  |
| B24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| B26 | NC |  |  |
| B27 | NC |  |  |
| B28 | NC |  |  |
| B29 | NC |  |  |
| B30 | NC |  |  |
| B31 | NC |  |  |
| B32 | NC |  |  |
| B33 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B34 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B35 | NC |  |  |
| B36 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B37 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B38 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B39 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B40 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B41 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B42 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B43 | NC |  |  |
| B44 | NC |  |  |
| B45 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B46 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B47 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B48 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B49 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B50 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B51 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B52 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B53 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B54 | NC |  |  |
| B55 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| B56 | NC |  |  |
| B57 | NC |  |  |
| B58 | NC |  |  |
| B59 | NC |  |  |
| B60 | NC |  |  |
| B61 | NC |  |  |
| C1 | NC |  |  |
| C2 | NC |  |  |
| C6 | FLT\_IN | T1 | F\_OUT\_MODEM |
| C7 | FLT\_OUT | T1 | F\_OUT\_MODEM |
| C15 | NC |  |  |
| C16 | NC |  |  |
| C17 | NC |  |  |
| C18 | NC |  |  |
| C19 | NC |  |  |
| C20 | NC |  |  |
| C21 | NC |  |  |
| C22 | NC |  |  |
| C23 | NC |  |  |
| C24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| C25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| C26 | NC |  |  |
| C27 | NC |  |  |
| C28 | NC |  |  |
| C29 | NC |  |  |
| C30 | NC |  |  |
| C31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| C32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| C33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| C34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| C35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| C36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| C37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| C38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| C39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| C40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| C41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| C42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| C43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| C44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| C45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| C46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| C47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| C48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| C49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| C50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| C51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| C52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| C53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| C54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| C55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| C56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| C57 | NC |  |  |
| C58 | NC |  |  |
| C59 | NC |  |  |
| C60 | NC |  |  |
| C61 | NC |  |  |
| D1 | AVDD\_MIX | F1 | AVDD\_LNA |
| D2 | AVDD\_MIX | F1 | AVDD\_LNA |
| D11 | NC |  |  |
| D12 | NC |  |  |
| D13 | NC |  |  |
| D14 | NC |  |  |
| D15 | NC |  |  |
| D16 | NC |  |  |
| D17 | NC |  |  |
| D18 | NC |  |  |
| D19 | NC |  |  |
| D20 | NC |  |  |
| D21 | NC |  |  |
| D22 | NC |  |  |
| D23 | NC |  |  |
| D24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| D25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| D26 | NC |  |  |
| D27 | NC |  |  |
| D28 | NC |  |  |
| D29 | NC |  |  |
| D30 | NC |  |  |
| D31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| D32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| D33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| D34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| D35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| D36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| D37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| D38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| D39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| D40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| D41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| D42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| D43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| D44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| D45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| D46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| D47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| D48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| D49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| D50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| D51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| D52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| D53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| D54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| D55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| D56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| D57 | NC |  |  |
| D58 | NC |  |  |
| D59 | NC |  |  |
| D60 | NC |  |  |
| D61 | NC |  |  |
| E1 | GND\_MIX | B1, B2, C2, D1, D2 | GND\_GNSS\_RFIN |
| E2 | GND\_MIX | B1, B2, C2, D1, D2 | GND\_GNSS\_RFIN |
| E11 | NC |  |  |
| E12 | NC |  |  |
| E13 | NC |  |  |
| E14 | NC |  |  |
| E15 | NC |  |  |
| E16 | NC |  |  |
| E17 | NC |  |  |
| E18 | NC |  |  |
| E19 | NC |  |  |
| E20 | NC |  |  |
| E21 | NC |  |  |
| E22 | NC |  |  |
| E23 | NC |  |  |
| E24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| E25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| E26 | MODEM\_SC\_DATA\_IO | C5 | SC\_DATA\_IO |
| E27 | MODEM\_SC\_CLK\_O | C6 | SC\_CLK\_O |
| E28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| E29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| E30 | MODEM\_SC\_RST\_O | B6 | SC\_RST\_O |
| E31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| E32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| E33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| E34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| E35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| E36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| E37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| E38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| E39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| E40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| E41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| E42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| E43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| E44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| E45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| E46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| E47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| E48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| E49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| E50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| E51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| E52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| E53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| E54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| E55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| E56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| E57 | APP\_USB\_DATA\_6 | B17 | USB\_DATA[6] |
| E58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| E59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| E60 | APP\_USB\_DATA\_5 | A18 | USB\_DATA[5] |
| E61 | APP\_USB\_DATA\_7 | A17 | USB\_DATA[7] |
| F1 | GND\_ESD\_LNA | E1 | AGND\_ESD |
| F2 | GND\_LNA | B1, B2, C2, D1, D2 | GND\_GNSS\_RFIN |
| F11 | NC |  |  |
| F12 | NC |  |  |
| F13 | NC |  |  |
| F14 | NC |  |  |
| F15 | NC |  |  |
| F16 | NC |  |  |
| F17 | NC |  |  |
| F18 | NC |  |  |
| F19 | NC |  |  |
| F20 | NC |  |  |
| F21 | NC |  |  |
| F22 | NC |  |  |
| F23 | NC |  |  |
| F24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| F25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| F26 | MODEM\_SC\_PLUG\_I | B5 | SC\_PLUG\_I |
| F27 | MODEM\_SC\_VCC\_O | A6 | SC\_VCC\_O |
| F28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| F29 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| F30 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| F31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| F32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| F33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| F34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| F35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| F36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| F37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| F38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| F39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| F40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| F41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| F42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| F43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| F44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| F45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| F46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| F47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| F48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| F49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| F50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| F51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| F52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| F53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| F54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| F55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| F56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| F57 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| F58 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| F59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| F60 | APP\_USB\_DATA\_4 | B18 | USB\_DATA[4] |
| F61 | APP\_USB\_DATA\_3 | A19 | USB\_DATA[3] |
| G1 | GND\_LNA | B1, B2, C2, D1, D2 | GND\_GNSS\_RFIN |
| G2 | GND\_LNA | B1, B2, C2, D1, D2 | GND\_GNSS\_RFIN |
| G11 | NC |  |  |
| G12 | NC |  |  |
| G13 | NC |  |  |
| G14 | NC |  |  |
| G15 | NC |  |  |
| G16 | NC |  |  |
| G17 | NC |  |  |
| G18 | NC |  |  |
| G19 | NC |  |  |
| G20 | NC |  |  |
| G21 | NC |  |  |
| G22 | NC |  |  |
| G23 | NC |  |  |
| G24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| G25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| G26 | NC |  |  |
| G27 | NC |  |  |
| G28 | NC |  |  |
| G29 | NC |  |  |
| G30 | NC |  |  |
| G31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| G32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| G33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| G34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| G35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| G36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| G37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| G38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| G39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| G40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| G41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| G42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| G43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| G44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| G45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| G46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| G47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| G48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| G49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| G50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| G51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| G52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| G53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| G54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| G55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| G56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| G57 | APP\_USB\_DATA\_1 | A20 | USB\_DATA[1] |
| G58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| G59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| G60 | APP\_USB\_DATA\_0 | B20 | USB\_DATA[0] |
| G61 | APP\_USB\_DATA\_2 | B19 | USB\_DATA[2] |
| H1 | GND\_LNA | B1, B2, C2, D1, D2 | GND\_GNSS\_RFIN |
| H2 | RF\_IN | Y2 | MODEM\_RF\_IN |
| H11 | NC |  |  |
| H12 | NC |  |  |
| H13 | NC |  |  |
| H14 | NC |  |  |
| H15 | NC |  |  |
| H16 | NC |  |  |
| H17 | NC |  |  |
| H18 | NC |  |  |
| H19 | NC |  |  |
| H20 | NC |  |  |
| H21 | NC |  |  |
| H22 | NC |  |  |
| H23 | NC |  |  |
| H24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| H25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| H26 | GNSS\_GNSS\_PPS | A8 | gnss\_pps |
| H27 | NC |  |  |
| H28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| H29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| H30 | NC |  |  |
| H31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| H32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| H33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| H34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| H35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| H36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| H37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| H38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| H39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| H40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| H41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| H42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| H43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| H44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| H45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| H46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| H47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| H48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| H49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| H50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| H51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| H52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| H53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| H54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| H55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| H56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| H57 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| H58 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| H59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| H60 | APP\_USB\_NXT | D20 | USB\_NXT |
| H61 | APP\_USB\_DIR | E20 | USB\_DIR |
| J1 | GND\_LNA | B1, B2, C2, D1, D2 | GND\_GNSS\_RFIN |
| J2 | GND\_LNA | B1, B2, C2, D1, D2 | GND\_GNSS\_RFIN |
| J11 | NC |  |  |
| J12 | NC |  |  |
| J13 | NC |  |  |
| J14 | NC |  |  |
| J15 | NC |  |  |
| J16 | GND\_VR\_DIG | V4 | DGND\_MODEM |
| J17 | GND\_VR\_DIG | V4 | DGND\_MODEM |
| J18 | NC |  |  |
| J19 | NC |  |  |
| J20 | NC |  |  |
| J21 | NC |  |  |
| J22 | NC |  |  |
| J23 | NC |  |  |
| J24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| J25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| J26 | GNSS\_GPIO\_7 | D4 | gnss\_gpio[7] |
| J27 | GNSS\_GPIO\_5 | D6 | gnss\_gpio[5] |
| J28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| J29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| J30 | GNSS\_GPIO\_6 | D5 | gnss\_gpio[6] |
| J31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| J32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| J33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| J34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| J35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| J36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| J37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| J38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| J39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| J40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| J41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| J42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| J43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| J44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| J45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| J46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| J47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| J48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| J49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| J50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| J51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| J52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| J53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| J54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| J55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| J56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| J57 | APP\_USB\_XTI | B16 | USB\_XTI |
| J58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| J59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| J60 | NC |  |  |
| J61 | APP\_USB\_STP | C20 | USB\_STP |
| K1 | AVDD\_LNA | F1 | AVDD\_LNA |
| K2 | GND\_ESD\_LNA | E1 | AGND\_ESD |
| K11 | NC |  |  |
| K12 | NC |  |  |
| K13 | NC |  |  |
| K14 | NC |  |  |
| K15 | NC |  |  |
| K16 | AVDD\_VR\_DIG | V5 | DVDD\_MODEM |
| K17 | AVDD\_VR\_DIG | V5 | DVDD\_MODEM |
| K18 | NC |  |  |
| K19 | NC |  |  |
| K20 | NC |  |  |
| K21 | NC |  |  |
| K22 | NC |  |  |
| K23 | NC |  |  |
| K24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| K25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| K26 | GNSS\_GPIO\_3 | E4 | gnss\_gpio[3] |
| K27 | GNSS\_GPIO\_4 | D7 | gnss\_gpio[4] |
| K28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| K29 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| K30 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| K31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| K32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| K33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| K34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| K35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| K36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| K37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| K38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| K39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| K40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| K41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| K42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| K43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| K44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| K45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| K46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| K47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| K48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| K49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| K50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| K51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| K52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| K53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| K54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| K55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| K56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| K57 | NC |  |  |
| K58 | NC |  |  |
| K59 | NC |  |  |
| K60 | NC |  |  |
| K61 | NC |  |  |
| L1 | AVDD\_LNA | F1 | AVDD\_LNA |
| L11 | NC |  |  |
| L12 | NC |  |  |
| L13 | NC |  |  |
| L14 | NC |  |  |
| L15 | NC |  |  |
| L16 | VR\_DIG\_OUT | V6 | CVDD\_MODEM |
| L17 | VR\_DIG\_OUT | V6 | CVDD\_MODEM |
| L18 | NC |  |  |
| L19 | NC |  |  |
| L20 | NC |  |  |
| L21 | NC |  |  |
| L22 | NC |  |  |
| L23 | NC |  |  |
| L24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| L25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| L26 | GNSS\_GPIO\_2 | E5 | gnss\_gpio[2] |
| L27 | GNSS\_GPIO\_0 | E7 | gnss\_gpio[0] |
| L28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| L29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| L30 | GNSS\_GPIO\_1 | E6 | gnss\_gpio[1] |
| L31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| L32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| L33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| L34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| L35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| L36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| L37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| L38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| L39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| L40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| L41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| L42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| L43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| L44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| L45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| L46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| L47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| L48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| L49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| L50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| L51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| L52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| L53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| L54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| L55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| L56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| L57 | NC |  |  |
| L58 | NC |  |  |
| L59 | NC |  |  |
| L60 | NC |  |  |
| L61 | NC |  |  |
| M1 | NC |  |  |
| M11 | NC |  |  |
| M12 | NC |  |  |
| M13 | NC |  |  |
| M14 | NC |  |  |
| M15 | GND\_ESD\_DIG | V4 | DGND\_MODEM |
| M16 | DVDD\_IO | V6 | CVDD\_MODEM |
| M17 | DVDD\_IO | V6 | CVDD\_MODEM |
| M18 | NC |  |  |
| M19 | NC |  |  |
| M20 | NC |  |  |
| M21 | NC |  |  |
| M22 | NC |  |  |
| M23 | NC |  |  |
| M24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| M25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| M26 | NC |  |  |
| M27 | NC |  |  |
| M28 | NC |  |  |
| M29 | NC |  |  |
| M30 | NC |  |  |
| M31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| M32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| M33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| M34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| M35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| M36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| M37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| M38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| M39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| M40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| M41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| M42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| M43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| M44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| M45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| M46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| M47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| M48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| M49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| M50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| M51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| M52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| M53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| M54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| M55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| M56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| M57 | NC |  |  |
| M58 | NC |  |  |
| M59 | NC |  |  |
| M60 | NC |  |  |
| M61 | NC |  |  |
| N1 | NC |  |  |
| N2 | NC |  |  |
| N3 | NC |  |  |
| N11 | NC |  |  |
| N12 | NC |  |  |
| N13 | NC |  |  |
| N14 | NC |  |  |
| N15 | GND\_ESD\_DIG | V4 | DGND\_MODEM |
| N16 | DVDD | V6 | CVDD\_MODEM |
| N17 | DVDD | V6 | CVDD\_MODEM |
| N18 | NC |  |  |
| N19 | NC |  |  |
| N20 | NC |  |  |
| N21 | NC |  |  |
| N22 | NC |  |  |
| N23 | NC |  |  |
| N24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| N25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| N26 | GNSS\_GNSS\_CLK |  |  |
| N27 | NC |  |  |
| N28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| N29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| N30 | NC |  |  |
| N31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| N32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| N33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| N34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| N35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| N36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| N37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| N38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| N39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| N40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| N41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| N42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| N43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| N44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| N45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| N46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| N47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| N48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| N49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| N50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| N51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| N52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| N53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| N54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| N55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| N56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| N57 | APP\_UART\_RTS\_2 |  |  |
| N58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| N59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| N60 | APP\_UART\_SIN\_2 | M20 | UART\_SIN\_2 |
| N61 | APP\_UART\_CTS\_2 |  |  |
| P1 | AVDD\_PPFS | C4 | AVDD\_PPFS |
| P2 | AVDD\_PPFS | C4 | AVDD\_PPFS |
| P3 | NC |  |  |
| P11 | NC |  |  |
| P12 | NC |  |  |
| P13 | NC |  |  |
| P14 | NC |  |  |
| P15 | CLK\_OUT | J3 | gnss\_ext\_clk |
| P16 | GND\_DIG | V8 | CGND\_MODEM |
| P17 | GND\_DIG | V8 | CGND\_MODEM |
| P18 | NC |  |  |
| P19 | NC |  |  |
| P20 | NC |  |  |
| P21 | NC |  |  |
| P22 | NC |  |  |
| P23 | NC |  |  |
| P24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| P25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| P26 | GNSS\_GNSS\_SPI\_MISO | F4 | gnss\_spi\_miso |
| P27 | GNSS\_GNSS\_SPI\_SCSN |  |  |
| P28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| P29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| P30 | GNSS\_GNSS\_SPI\_MOSI | F5 | gnss\_spi\_mosi |
| P31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| P32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| P33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| P34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| P35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| P36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| P37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| P38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| P39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| P40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| P41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| P42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| P43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| P44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| P45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| P46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| P47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| P48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| P49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| P50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| P51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| P52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| P53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| P54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| P55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| P56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| P57 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| P58 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| P59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| P60 | APP\_UART\_SOUT\_2 | N20 | UART\_SOUT\_2 |
| P61 | APP\_UART\_CTS\_1 | K18 | UART\_CTS\_1\_CanRxd |
| R1 | GND\_ESD\_PPFS | C3 | AGND\_PPFS |
| R11 | NC |  |  |
| R12 | NC |  |  |
| R13 | NC |  |  |
| R14 | NC |  |  |
| R15 | GND\_ESD\_DIG | V4 | DGND\_MODEM |
| R16 | GLO\_DAT\_3 | E4 | gnss\_gpio[3] |
| R17 | TCXO | T3 | modem\_dfe\_clk\_tcxo |
| R18 | NC |  |  |
| R19 | NC |  |  |
| R20 | NC |  |  |
| R21 | NC |  |  |
| R22 | NC |  |  |
| R23 | NC |  |  |
| R24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| R25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| R26 | NC |  |  |
| R27 | GNSS\_GNSS\_SPI\_SCLK | F6 | gnss\_spi\_sclk |
| R28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| R29 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| R30 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| R31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| R32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| R33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| R34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| R35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| R36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| R37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| R38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| R39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| R40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| R41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| R42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| R43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| R44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| R45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| R46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| R47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| R48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| R49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| R50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| R51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| R52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| R53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| R54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| R55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| R56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| R57 | APP\_UART\_SIN\_1 | K20 | UART\_SIN\_1 |
| R58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| R59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| R60 | APP\_UART\_SOUT\_1 | L20 | UART\_SOUT\_1 |
| R61 | APP\_UART\_RTS\_1 | L18 | UART\_RTS\_1\_CanTxd |
| T1 | GND\_ESD\_PPFS | C3 | AGND\_PPFS |
| T7 | NC |  |  |
| T8 | NC |  |  |
| T9 | NC |  |  |
| T10 | NC |  |  |
| T11 | NC |  |  |
| T12 | NC |  |  |
| T13 | NC |  |  |
| T14 | NC |  |  |
| T15 | AVDD\_DIG\_IO | V5 | DVDD\_MODEM |
| T16 | GLO\_DAT\_1 | E6 | gnss\_gpio[1] |
| T17 | GLO\_DAT\_2 | E5 | gnss\_gpio[2] |
| T18 | NC |  |  |
| T19 | NC |  |  |
| T20 | NC |  |  |
| T21 | NC |  |  |
| T22 | NC |  |  |
| T23 | NC |  |  |
| T24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| T25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| T26 | APP\_BOOT\_EN | N3 | BOOT\_EN |
| T27 | APP\_RSTn | M2 | nRST |
| T28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| T29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| T30 | APP\_BOOT | M3 | BOOT |
| T31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| T32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| T33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| T34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| T35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| T36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| T37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| T38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| T39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| T40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| T41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| T42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| T43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| T44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| T45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| T46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| T47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| T48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| T49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| T50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| T51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| T52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| T53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| T54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| T55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| T56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| T57 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| T58 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| T59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| T60 | APP\_UART\_CTS\_0 | H20 | UART\_CTS\_0 |
| T61 | APP\_UART\_RTS\_0 | J20 | UART\_RTS\_0 |
| U1 | GND\_PPFS | C3 | AGND\_PPFS |
| U2 | GND\_PPFS | C3 | AGND\_PPFS |
| U3 | NC |  |  |
| U7 | NC |  |  |
| U8 | NC |  |  |
| U9 | NC |  |  |
| U10 | NC |  |  |
| U11 | NC |  |  |
| U12 | NC |  |  |
| U13 | NC |  |  |
| U14 | NC |  |  |
| U15 | AVDD\_DIG\_IO | V5 | DVDD\_MODEM |
| U16 | GPS\_DAT\_3 | D4 | gnss\_gpio[7] |
| U17 | GLO\_DAT\_0 | E7 | gnss\_gpio[0] |
| U18 | NC |  |  |
| U19 | NC |  |  |
| U20 | NC |  |  |
| U21 | NC |  |  |
| U22 | NC |  |  |
| U23 | NC |  |  |
| U24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| U25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| U26 | APP\_TESTOUT | R2 | TESTOUT |
| U27 | APP\_TEST\_MODE | R1 | TEST\_MODE |
| U28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| U29 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| U30 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| U31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| U32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| U33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| U34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| U35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| U36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| U37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| U38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| U39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| U40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| U41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| U42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| U43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| U44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| U45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| U46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| U47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| U48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| U49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| U50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| U51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| U52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| U53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| U54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| U55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| U56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| U57 | APP\_UART\_SOUT\_0 | G20 | UART\_SOUT\_0 |
| U58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| U59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| U60 | NC |  |  |
| U61 | APP\_UART\_SIN\_0 | F20 | UART\_SIN\_0 |
| V1 | NC |  |  |
| V2 | NC |  |  |
| V3 | NC |  |  |
| V7 | NC |  |  |
| V8 | NC |  |  |
| V9 | NC |  |  |
| V10 | NC |  |  |
| V11 | NC |  |  |
| V12 | NC |  |  |
| V13 | NC |  |  |
| V14 | NC |  |  |
| V15 | NC |  |  |
| V16 | GPS\_DAT\_1 | D6 | gnss\_gpio[5] |
| V17 | GPS\_DAT\_2 | D5 | gnss\_gpio[6] |
| V18 | NC |  |  |
| V19 | NC |  |  |
| V20 | NC |  |  |
| V21 | NC |  |  |
| V22 | NC |  |  |
| V23 | NC |  |  |
| V24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| V25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| V26 | NC |  |  |
| V27 | NC |  |  |
| V28 | NC |  |  |
| V29 | NC |  |  |
| V30 | NC |  |  |
| V31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| V32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| V33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| V34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| V35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| V36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| V37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| V38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| V39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| V40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| V41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| V42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| V43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| V44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| V45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| V46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| V47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| V48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| V49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| V50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| V51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| V52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| V53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| V54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| V55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| V56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| V57 | NC |  |  |
| V58 | NC |  |  |
| V59 | NC |  |  |
| V60 | NC |  |  |
| V61 | NC |  |  |
| W1 | NC |  |  |
| W2 | NC |  |  |
| W3 | NC |  |  |
| W7 | NC |  |  |
| W8 | NC |  |  |
| W9 | NC |  |  |
| W10 | NC |  |  |
| W11 | NC |  |  |
| W12 | NC |  |  |
| W13 | NC |  |  |
| W14 | NC |  |  |
| W15 | NC |  |  |
| W16 | MISO | P4 | modem\_spi\_miso |
| W17 | GPS\_DAT\_0 | D7 | gnss\_gpio[4] |
| W18 | NC |  |  |
| W19 | NC |  |  |
| W20 | NC |  |  |
| W21 | NC |  |  |
| W22 | NC |  |  |
| W23 | NC |  |  |
| W24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| W25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| W26 | APP\_TDI | L1 | TDI |
| W27 | APP\_TDO | M1 | TDO |
| W28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| W29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| W30 | APP\_TMS | N1 | TMS |
| W31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| W32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| W33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| W34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| W35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| W36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| W37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| W38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| W39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| W40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| W41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| W42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| W43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| W44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| W45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| W46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| W47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| W48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| W49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| W50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| W51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| W52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| W53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| W54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| W55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| W56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| W57 | NC |  |  |
| W58 | NC |  |  |
| W59 | NC |  |  |
| W60 | NC |  |  |
| W61 | NC |  |  |
| Y1 | NC |  |  |
| Y2 | NC |  |  |
| Y3 | NC |  |  |
| Y7 | NC |  |  |
| Y9 | NC |  |  |
| Y10 | NC |  |  |
| Y11 | NC |  |  |
| Y12 | NC |  |  |
| Y13 | NC |  |  |
| Y14 | NC |  |  |
| Y15 | NC |  |  |
| Y16 | SCLK | R5 | modem\_spi\_sclk, |
| Y17 | MOSI | P5 | modem\_spi\_mosi |
| Y18 | NC |  |  |
| Y19 | NC |  |  |
| Y20 | NC |  |  |
| Y21 | NC |  |  |
| Y22 | NC |  |  |
| Y23 | NC |  |  |
| Y24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| Y25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| Y26 | APP\_TCK | P1 | TCK |
| Y27 | APP\_TRSTN | L2 | nTRST |
| Y28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| Y29 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| Y30 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| Y31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| Y32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| Y33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| Y34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| Y35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| Y36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| Y37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| Y38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| Y39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| Y40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| Y41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| Y42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| Y43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| Y44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| Y45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| Y46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| Y47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| Y48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| Y49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| Y50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| Y51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| Y52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| Y53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| Y54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| Y55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| Y56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| Y57 | NC |  |  |
| Y58 | NC |  |  |
| Y59 | NC |  |  |
| Y60 | NC |  |  |
| Y61 | NC |  |  |
| AA1 | NC |  |  |
| AA2 | NC |  |  |
| AA3 | GND\_ESD\_VGAS | G2 | AGND\_VGA |
| AA4 | GND\_ESD\_VGAS | G2 | AGND\_VGA |
| AA5 | GND\_ESD\_VGAS | G2 | AGND\_VGA |
| AA11 | AVDD\_VR\_ADC | W5 | AVDD\_MODEM\_BB\_RX |
| AA12 | AVDD\_VR\_ADC | W5 | AVDD\_MODEM\_BB\_RX |
| AA13 | GND\_ESD\_VGAS | G2 | AGND\_VGA |
| AA14 | NC |  |  |
| AA15 | NC |  |  |
| AA16 | GND\_ESD\_DIG | V4 | DGND\_MODEM |
| AA17 | SCSN | G4 | gnss\_spi\_scsn0 |
| AA18 | NC |  |  |
| AA19 | NC |  |  |
| AA20 | NC |  |  |
| AA21 | NC |  |  |
| AA22 | NC |  |  |
| AA23 | NC |  |  |
| AA24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AA25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AA26 | NC |  |  |
| AA27 | NC |  |  |
| AA28 | NC |  |  |
| AA29 | NC |  |  |
| AA30 | NC |  |  |
| AA31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AA32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AA33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AA34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AA35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AA36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AA37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AA38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AA39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AA40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AA41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AA42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AA43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AA44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AA45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AA46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AA47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AA48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AA49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AA50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AA51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AA52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AA53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AA54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AA55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AA56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AA57 | APP\_SD\_CDET | R14 | SD\_CDET |
| AA58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AA59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AA60 | APP\_SD\_CMD | U16 | SD\_CMD |
| AA61 | APP\_SD\_CLK | U15 | SD\_CLK |
| AB1 | NC |  |  |
| AB2 | NC |  |  |
| AB3 | GND\_VGA\_GLO | G2 | AGND\_VGA |
| AB4 | GND\_VGA\_GLO | G2 | AGND\_VGA |
| AB5 | AVDD\_GLO | G1 | AVDD\_VGA |
| AB6 | AVDD\_GLO | G1 | AVDD\_VGA |
| AB7 | GND\_ADC\_GLO | H1 | CGND\_ADC |
| AB8 | CVDD\_ADC\_GLO | H2 | CVDD\_ADC |
| AB9 | VR\_ADC\_OUT | H2 | CVDD\_ADC |
| AB10 | NC |  |  |
| AB11 | GND\_VR\_ADC | W4 | AGND\_MODEM\_BB\_RX |
| AB12 | AVDD\_CREF | Y5 | AVDD\_MODEM\_IF\_RX |
| AB13 | R10K\_1 | D3 | R10K\_GNSS |
| AB14 | GND\_CREF | Y4 | AGND\_MODEM\_IF\_RX |
| AB15 | NC |  |  |
| AB16 | GND\_ESD\_DIG | V4 | DGND\_MODEM |
| AB17 | GND\_ESD\_DIG | V4 | DGND\_MODEM |
| AB18 | NC |  |  |
| AB19 | NC |  |  |
| AB20 | NC |  |  |
| AB21 | NC |  |  |
| AB22 | NC |  |  |
| AB23 | NC |  |  |
| AB24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AB25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AB26 | NC |  |  |
| AB27 | NC |  |  |
| AB28 | BAT\_OSC\_AVDD | P20, R20, T20 | VDD\_PLL |
| AB29 | BAT\_OSC\_AVSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AB30 | NC |  |  |
| AB31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AB32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AB33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AB34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AB35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AB36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AB37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AB38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AB39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AB40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AB41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AB42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AB43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AB44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AB45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AB46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AB47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AB48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AB49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AB50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AB51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AB52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AB53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AB54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AB55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AB56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AB57 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AB58 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AB59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AB60 | APP\_SD\_DAT3\_CD | U17 | SD\_DAT3\_CD |
| AB61 | APP\_SD\_DAT2 | T17 | SD\_DAT2 |
| AC1 | NC |  |  |
| AC2 | NC |  |  |
| AC3 | GND\_VGA\_GPS | G2 | AGND\_VGA |
| AC4 | GND\_VGA\_GPS | G2 | AGND\_VGA |
| AC5 | AVDD\_GPS | G1 | AVDD\_VGA |
| AC6 | AVDD\_GPS | G1 | AVDD\_VGA |
| AC7 | GND\_ADC\_GPS | H1 | CGND\_ADC |
| AC8 | CVDD\_ADC\_GPS | H2 | CVDD\_ADC |
| AC9 | VR\_ADC\_OUT | H2 | CVDD\_ADC |
| AC10 | NC |  |  |
| AC11 | GND\_VR\_ADC | W4 | AGND\_MODEM\_BB\_RX |
| AC12 | AVDD\_CREF | Y5 | AVDD\_MODEM\_IF\_RX |
| AC13 | R10K\_0 | D3 | R10K\_GNSS |
| AC14 | GND\_CREF | Y4 | AGND\_MODEM\_IF\_RX |
| AC15 | RSTN | G6 | gnss\_rst |
| AC16 | GND\_ESD\_DIG | V4 | DGND\_MODEM |
| AC17 | NC |  |  |
| AC18 | NC |  |  |
| AC19 | NC |  |  |
| AC20 | NC |  |  |
| AC21 | NC |  |  |
| AC22 | NC |  |  |
| AC23 | NC |  |  |
| AC24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AC25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AC26 | NC |  |  |
| AC27 | APP\_XTO32 | A16 | XTO32 |
| AC28 | NC |  |  |
| AC29 | NC |  |  |
| AC30 | NC |  |  |
| AC31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AC32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AC33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AC34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AC35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AC36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AC37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AC38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AC39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AC40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AC41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AC42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AC43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AC44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AC45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AC46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AC47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AC48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AC49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AC50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AC51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AC52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AC53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AC54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AC55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AC56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AC57 | APP\_SD\_DAT0 | P17 | SD\_DAT0 |
| AC58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AC59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AC60 | NC |  |  |
| AC61 | APP\_SD\_DAT1 | R17 | SD\_DAT1 |
| AD1 | NC |  |  |
| AD2 | NC |  |  |
| AD3 | NC |  |  |
| AD4 | NC |  |  |
| AD5 | NC |  |  |
| AD6 | NC |  |  |
| AD7 | NC |  |  |
| AD8 | NC |  |  |
| AD9 | NC |  |  |
| AD10 | NC |  |  |
| AD11 | NC |  |  |
| AD12 | NC |  |  |
| AD13 | NC |  |  |
| AD14 | NC |  |  |
| AD15 | NC |  |  |
| AD16 | NC |  |  |
| AD17 | NC |  |  |
| AD18 | NC |  |  |
| AD19 | NC |  |  |
| AD20 | NC |  |  |
| AD21 | NC |  |  |
| AD22 | NC |  |  |
| AD23 | NC |  |  |
| AD24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AD25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AD26 | NC |  |  |
| AD27 | APP\_XTI32 | A15 | XTI32 |
| AD28 | NC |  |  |
| AD29 | NC |  |  |
| AD30 | NC |  |  |
| AD31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AD32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AD33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AD34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AD35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AD36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AD37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AD38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AD39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AD40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AD41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AD42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AD43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AD44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AD45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AD46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AD47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AD48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AD49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AD50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AD51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AD52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AD53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AD54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AD55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AD56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AD57 | NC |  |  |
| AD58 | NC |  |  |
| AD59 | NC |  |  |
| AD60 | NC |  |  |
| AD61 | NC |  |  |
| AE1 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE2 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE3 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE4 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE5 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE6 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE7 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE8 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE9 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE10 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE11 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE12 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE13 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE14 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE15 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE16 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE17 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE18 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE19 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE20 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE21 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE22 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE23 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AE25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AE26 | NC |  |  |
| AE27 | NC |  |  |
| AE28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AE29 | NC |  |  |
| AE30 | NC |  |  |
| AE31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AE32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AE33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AE34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AE35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AE36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AE37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AE38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AE39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AE40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AE41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AE42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AE43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AE44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AE45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AE46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AE47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AE48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AE49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AE50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AE51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AE52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AE53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AE54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AE55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AE56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AE57 | NC |  |  |
| AE58 | NC |  |  |
| AE59 | NC |  |  |
| AE60 | NC |  |  |
| AE61 | NC |  |  |
| AF1 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF2 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF3 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF4 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF5 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF6 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF7 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF8 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF9 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF10 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF11 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF12 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF13 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF14 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF15 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF16 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF17 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF18 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF19 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF20 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF21 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF22 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF23 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AF25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF26 | NC |  |  |
| AF27 | NC |  |  |
| AF28 | NC |  |  |
| AF29 | BAT\_PVDD | G18 | BAT\_PVDD |
| AF30 | NC |  |  |
| AF31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AF32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AF34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AF36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AF38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AF40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AF42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AF44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AF46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AF48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AF50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AF52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AF54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AF56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AF57 | NC |  |  |
| AF58 | NC |  |  |
| AF59 | NC |  |  |
| AF60 | NC |  |  |
| AF61 | NC |  |  |
| AG1 | NC |  |  |
| AG2 | NC |  |  |
| AG3 | NC |  |  |
| AG4 | NC |  |  |
| AG5 | NC |  |  |
| AG6 | NC |  |  |
| AG7 | NC |  |  |
| AG8 | NC |  |  |
| AG9 | NC |  |  |
| AG10 | NC |  |  |
| AG11 | NC |  |  |
| AG12 | NC |  |  |
| AG13 | NC |  |  |
| AG14 | NC |  |  |
| AG15 | NC |  |  |
| AG16 | NC |  |  |
| AG17 | NC |  |  |
| AG18 | NC |  |  |
| AG19 | NC |  |  |
| AG20 | NC |  |  |
| AG21 | NC |  |  |
| AG22 | NC |  |  |
| AG23 | NC |  |  |
| AG24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AG25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AG26 | APP\_CORE\_PORn | R3 | TST\_CORE\_PORn |
| AG27 | APP\_COREOFFn | L3 | COREOFFn |
| AG28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AG29 | BAT\_CVDD | P18 | BAT\_CVDD |
| AG30 | APP\_BAT\_PORn | N2 | BAT\_PORn |
| AG31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AG32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AG33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AG34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AG35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AG36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AG37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AG38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AG39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AG40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AG41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AG42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AG43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AG44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AG45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AG46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AG47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AG48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AG49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AG50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AG51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AG52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AG53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AG54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AG55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AG56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AG57 | NC |  |  |
| AG58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AG59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AG60 | NC |  |  |
| AG61 | APP\_XTI | Y19 | XTI |
| AH1 | NC |  |  |
| AH2 | NC |  |  |
| AH3 | NC |  |  |
| AH4 | NC |  |  |
| AH5 | NC |  |  |
| AH6 | NC |  |  |
| AH7 | NC |  |  |
| AH8 | NC |  |  |
| AH9 | NC |  |  |
| AH10 | NC |  |  |
| AH11 | NC |  |  |
| AH12 | NC |  |  |
| AH13 | NC |  |  |
| AH14 | NC |  |  |
| AH15 | NC |  |  |
| AH16 | NC |  |  |
| AH17 | NC |  |  |
| AH18 | NC |  |  |
| AH19 | NC |  |  |
| AH20 | NC |  |  |
| AH21 | NC |  |  |
| AH22 | NC |  |  |
| AH23 | NC |  |  |
| AH24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AH25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AH26 | NC |  |  |
| AH27 | NC |  |  |
| AH28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AH29 | BAT\_PVDD | G18 | BAT\_PVDD |
| AH30 | BAT\_CVDD | P18 | BAT\_CVDD |
| AH31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AH32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AH33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AH34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AH35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AH36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AH37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AH38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AH39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AH40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AH41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AH42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AH43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AH44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AH45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AH46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AH47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AH48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AH49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AH50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AH51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AH52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AH53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AH54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AH55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AH56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AH57 | NC |  |  |
| AH58 | NC |  |  |
| AH59 | NC |  |  |
| AH60 | NC |  |  |
| AH61 | NC |  |  |
| AJ1 | NC |  |  |
| AJ2 | NC |  |  |
| AJ3 | NC |  |  |
| AJ4 | NC |  |  |
| AJ5 | NC |  |  |
| AJ6 | NC |  |  |
| AJ7 | NC |  |  |
| AJ8 | NC |  |  |
| AJ9 | NC |  |  |
| AJ10 | NC |  |  |
| AJ11 | NC |  |  |
| AJ12 | NC |  |  |
| AJ13 | NC |  |  |
| AJ14 | NC |  |  |
| AJ15 | NC |  |  |
| AJ16 | NC |  |  |
| AJ17 | NC |  |  |
| AJ18 | NC |  |  |
| AJ19 | NC |  |  |
| AJ20 | NC |  |  |
| AJ21 | NC |  |  |
| AJ22 | NC |  |  |
| AJ23 | NC |  |  |
| AJ24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AJ25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AJ26 | NC |  |  |
| AJ27 | NC |  |  |
| AJ28 | NC |  |  |
| AJ29 | NC |  |  |
| AJ30 | NC |  |  |
| AJ31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AJ32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AJ33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AJ34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AJ35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AJ36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AJ37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AJ38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AJ39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AJ40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AJ41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AJ42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AJ43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AJ44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AJ45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AJ46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AJ47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AJ48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AJ49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AJ50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AJ51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AJ52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AJ53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AJ54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AJ55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AJ56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AJ57 | NC |  |  |
| AJ58 | NC |  |  |
| AJ59 | NC |  |  |
| AJ60 | NC |  |  |
| AJ61 | NC |  |  |
| AK1 | NC |  |  |
| AK2 | NC |  |  |
| AK3 | NC |  |  |
| AK4 | NC |  |  |
| AK5 | NC |  |  |
| AK6 | NC |  |  |
| AK7 | NC |  |  |
| AK8 | NC |  |  |
| AK9 | NC |  |  |
| AK10 | NC |  |  |
| AK11 | NC |  |  |
| AK12 | NC |  |  |
| AK13 | NC |  |  |
| AK14 | NC |  |  |
| AK15 | NC |  |  |
| AK16 | NC |  |  |
| AK17 | NC |  |  |
| AK18 | NC |  |  |
| AK19 | NC |  |  |
| AK20 | NC |  |  |
| AK21 | NC |  |  |
| AK22 | NC |  |  |
| AK23 | NC |  |  |
| AK24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AK25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AK26 | NC |  |  |
| AK27 | NC |  |  |
| AK28 | NC |  |  |
| AK29 | NC |  |  |
| AK30 | NC |  |  |
| AK31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AK32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AK33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AK34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AK35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AK36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AK37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AK38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AK39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AK40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AK41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AK42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AK43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AK44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AK45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AK46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AK47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AK48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AK49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AK50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AK51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AK52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AK53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AK54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AK55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AK56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AK57 | GNSS\_GPMC\_NBE\_0 | E8 | nBE[0] |
| AK58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AK59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AK60 | GNSS\_GPMC\_NBE\_1 | D8 | nBE[1] |
| AK61 | GNSS\_GPMC\_ACK | F9 | ACK |
| AL1 | NC |  |  |
| AL2 | NC |  |  |
| AL3 | NC |  |  |
| AL4 | NC |  |  |
| AL5 | NC |  |  |
| AL6 | NC |  |  |
| AL7 | NC |  |  |
| AL8 | NC |  |  |
| AL9 | NC |  |  |
| AL10 | NC |  |  |
| AL11 | NC |  |  |
| AL12 | NC |  |  |
| AL13 | NC |  |  |
| AL14 | NC |  |  |
| AL15 | NC |  |  |
| AL16 | NC |  |  |
| AL17 | NC |  |  |
| AL18 | NC |  |  |
| AL19 | NC |  |  |
| AL20 | NC |  |  |
| AL21 | NC |  |  |
| AL22 | NC |  |  |
| AL23 | NC |  |  |
| AL24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AL25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AL26 | GNSS\_GNSS\_DATA\_15 |  |  |
| AL27 | GNSS\_GNSS\_DATA\_13 |  |  |
| AL28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AL29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AL30 | GNSS\_GNSS\_DATA\_14 |  |  |
| AL31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AL32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AL33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AL34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AL35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AL36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AL37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AL38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AL39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AL40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AL41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AL42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AL43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AL44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AL45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AL46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AL47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AL48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AL49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AL50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AL51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AL52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AL53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AL54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AL55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AL56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AL57 | NC |  |  |
| AL58 | NC |  |  |
| AL59 | NC |  |  |
| AL60 | NC |  |  |
| AL61 | NC |  |  |
| AM1 | NC |  |  |
| AM2 | NC |  |  |
| AM3 | NC |  |  |
| AM4 | NC |  |  |
| AM5 | NC |  |  |
| AM6 | NC |  |  |
| AM7 | NC |  |  |
| AM8 | NC |  |  |
| AM9 | NC |  |  |
| AM10 | NC |  |  |
| AM11 | NC |  |  |
| AM12 | NC |  |  |
| AM13 | NC |  |  |
| AM14 | NC |  |  |
| AM15 | NC |  |  |
| AM16 | NC |  |  |
| AM17 | NC |  |  |
| AM18 | NC |  |  |
| AM19 | NC |  |  |
| AM20 | NC |  |  |
| AM21 | NC |  |  |
| AM22 | NC |  |  |
| AM23 | NC |  |  |
| AM24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AM25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AM26 | GNSS\_GNSS\_DATA\_11 |  |  |
| AM27 | GNSS\_GNSS\_DATA\_12 |  |  |
| AM28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AM29 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AM30 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AM31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AM32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AM33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AM34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AM35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AM36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AM37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AM38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AM39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AM40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AM41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AM42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AM43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AM44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AM45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AM46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AM47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AM48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AM49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AM50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AM51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AM52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AM53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AM54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AM55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AM56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AM57 | NC |  |  |
| AM58 | NC |  |  |
| AM59 | NC |  |  |
| AM60 | NC |  |  |
| AM61 | NC |  |  |
| AN1 | NC |  |  |
| AN2 | NC |  |  |
| AN3 | NC |  |  |
| AN4 | NC |  |  |
| AN5 | NC |  |  |
| AN6 | NC |  |  |
| AN7 | NC |  |  |
| AN8 | NC |  |  |
| AN9 | NC |  |  |
| AN10 | NC |  |  |
| AN11 | NC |  |  |
| AN12 | NC |  |  |
| AN13 | NC |  |  |
| AN14 | NC |  |  |
| AN15 | NC |  |  |
| AN16 | NC |  |  |
| AN17 | NC |  |  |
| AN18 | NC |  |  |
| AN19 | NC |  |  |
| AN20 | NC |  |  |
| AN21 | NC |  |  |
| AN22 | NC |  |  |
| AN23 | NC |  |  |
| AN24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AN25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AN26 | GNSS\_GNSS\_DATA\_10 |  |  |
| AN27 | GNSS\_GNSS\_DATA\_8 |  |  |
| AN28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AN29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AN30 | GNSS\_GNSS\_DATA\_9 |  |  |
| AN31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AN32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AN33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AN34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AN35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AN36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AN37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AN38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AN39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AN40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AN41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AN42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AN43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AN44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AN45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AN46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AN47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AN48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AN49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AN50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AN51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AN52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AN53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AN54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AN55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AN56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AN57 | NC |  |  |
| AN58 | NC |  |  |
| AN59 | NC |  |  |
| AN60 | NC |  |  |
| AN61 | NC |  |  |
| AP1 | NC |  |  |
| AP2 | NC |  |  |
| AP3 | NC |  |  |
| AP4 | NC |  |  |
| AP5 | NC |  |  |
| AP6 | NC |  |  |
| AP7 | NC |  |  |
| AP8 | NC |  |  |
| AP9 | NC |  |  |
| AP10 | NC |  |  |
| AP11 | NC |  |  |
| AP12 | NC |  |  |
| AP13 | NC |  |  |
| AP14 | NC |  |  |
| AP15 | NC |  |  |
| AP16 | NC |  |  |
| AP17 | NC |  |  |
| AP18 | NC |  |  |
| AP19 | NC |  |  |
| AP20 | NC |  |  |
| AP21 | NC |  |  |
| AP22 | NC |  |  |
| AP23 | NC |  |  |
| AP24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AP25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AP26 | GNSS\_GNSS\_DATA\_6 |  |  |
| AP27 | GNSS\_GNSS\_DATA\_7 |  |  |
| AP28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AP29 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AP30 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AP31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AP32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AP33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AP34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AP35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AP36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AP37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AP38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AP39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AP40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AP41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AP42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AP43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AP44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AP45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AP46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AP47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AP48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AP49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AP50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AP51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AP52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AP53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AP54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AP55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AP56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AP57 | GNSS\_GPMC\_D\_1 | E9 | D[1] |
| AP58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AP59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AP60 | GNSS\_GPMC\_D\_2 | D10 | D[2] |
| AP61 | GNSS\_GPMC\_D\_0 | D9 | D[0] |
| AR1 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR2 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR3 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR4 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR5 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR6 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR7 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR8 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR9 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR10 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR11 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR12 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR13 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR14 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR15 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR16 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR17 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR18 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR19 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR20 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR21 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR22 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR23 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AR25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR26 | GNSS\_GNSS\_DATA\_5 |  |  |
| AR27 | GNSS\_GNSS\_DATA\_3 |  |  |
| AR28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AR30 | GNSS\_GNSS\_DATA\_4 |  |  |
| AR31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AR32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AR34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AR36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AR38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AR40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AR42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AR44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AR46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AR48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AR50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AR52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AR54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AR56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR57 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AR58 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AR59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AR60 | GNSS\_GPMC\_D\_3 | E10 | D[3] |
| AR61 | GNSS\_GPMC\_D\_4 | D11 | D[4] |
| AT1 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT2 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT3 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT4 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT5 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT6 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT7 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT8 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT9 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT10 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT11 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT12 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT13 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT14 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT15 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT16 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT17 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT18 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT19 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT20 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT21 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT22 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT23 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AT26 | GNSS\_GNSS\_DATA\_1 |  |  |
| AT27 | GNSS\_GNSS\_DATA\_2 |  |  |
| AT28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AT29 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AT30 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AT31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AT32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AT33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AT34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AT35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AT36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AT37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AT38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AT39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AT40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AT41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AT42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AT43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AT44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AT45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AT46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AT47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AT48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AT49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AT50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AT51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AT52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AT53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AT54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AT55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AT56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AT57 | GNSS\_GPMC\_D\_6 | D12 | D[6] |
| AT58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AT59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AT60 | GNSS\_GPMC\_D\_7 | E12 | D[7] |
| AT61 | GNSS\_GPMC\_D\_5 | E11 | D[5] |
| AU1 | NC |  |  |
| AU2 | NC |  |  |
| AU3 | NC |  |  |
| AU4 | NC |  |  |
| AU5 | NC |  |  |
| AU6 | NC |  |  |
| AU7 | NC |  |  |
| AU8 | NC |  |  |
| AU9 | NC |  |  |
| AU10 | NC |  |  |
| AU11 | NC |  |  |
| AU12 | NC |  |  |
| AU13 | NC |  |  |
| AU14 | NC |  |  |
| AU15 | NC |  |  |
| AU16 | NC |  |  |
| AU17 | NC |  |  |
| AU18 | NC |  |  |
| AU19 | NC |  |  |
| AU20 | NC |  |  |
| AU21 | NC |  |  |
| AU22 | NC |  |  |
| AU23 | NC |  |  |
| AU24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AU25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AU26 | GNSS\_GNSS\_DATA\_0 |  |  |
| AU27 | NC |  |  |
| AU28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AU29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AU30 | NC |  |  |
| AU31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AU32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AU33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AU34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AU35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AU36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AU37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AU38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AU39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AU40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AU41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AU42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AU43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AU44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AU45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AU46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AU47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AU48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AU49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AU50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AU51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AU52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AU53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AU54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AU55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AU56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AU57 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AU58 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AU59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AU60 | GNSS\_GPMC\_D\_8 | D13 | D[8] |
| AU61 | GNSS\_GPMC\_D\_9 | , | D[9] |
| AV1 | NC |  |  |
| AV2 | GND\_ESD\_DIG | V4 | DGND\_MODEM |
| AV3 | GND\_ESD\_DIG | V4 | DGND\_MODEM |
| AV4 | GND\_ESD\_DIG | V4 | DGND\_MODEM |
| AV5 | TCXO | T3 | modem\_dfe\_clk\_tcxo |
| AV6 | DFE\_DATA\_ADC\_4 | T11 | modem\_dfe\_data\_adc[4] |
| AV7 | DFE\_DATA\_ADC\_7 | R10 | modem\_dfe\_data\_adc[7] |
| AV8 | DFE\_DATA\_ADC\_10 | T8 | modem\_dfe\_data\_adc[10] |
| AV9 | DFE\_CLK | R6 | modem\_dfe\_clk |
| AV10 | RFFE\_REL | K1 | RFFE\_REL |
| AV11 | SCLK | R5 | modem\_spi\_sclk, |
| AV12 | GND\_ESD\_DIG | V4 | DGND\_MODEM |
| AV13 | GND\_DIG | V8 | CGND\_MODEM |
| AV14 | GND\_DIG | V8 | CGND\_MODEM |
| AV15 | GND\_VR\_DIG | V4 | DGND\_MODEM |
| AV16 | GND\_VR\_DIG | V4 | DGND\_MODEM |
| AV17 | DFE\_FBCLK | T6 | modem\_dfe\_fbclk |
| AV18 | DFE\_DATA\_DAC\_2 | J4 | modem\_dfe\_data\_dac[2] |
| AV19 | DFE\_DATA\_DAC\_6 | L4 | modem\_dfe\_data\_dac[6] |
| AV20 | GND\_ESD\_DIG | V4 | DGND\_MODEM |
| AV21 | GND\_ESD\_DIG | V4 | DGND\_MODEM |
| AV22 | NC |  |  |
| AV23 | NC |  |  |
| AV24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AV25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AV26 | NC |  |  |
| AV27 | NC |  |  |
| AV28 | NC |  |  |
| AV29 | NC |  |  |
| AV30 | NC |  |  |
| AV31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AV32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AV33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AV34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AV35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AV36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AV37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AV38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AV39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AV40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AV41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AV42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AV43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AV44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AV45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AV46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AV47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AV48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AV49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AV50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AV51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AV52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AV53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AV54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AV55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AV56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AV57 | GNSS\_GPMC\_D\_11 | E14 | D[11] |
| AV58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AV59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AV60 | GNSS\_GPMC\_D\_12 | D15 | D[12] |
| AV61 | GNSS\_GPMC\_D\_10 | D14 | D[10] |
| AW1 | GND\_VR\_ADC | W4 | AGND\_MODEM\_BB\_RX |
| AW2 | AVDD\_VR\_ADC | W5 | AVDD\_MODEM\_BB\_RX |
| AW3 | VR\_ADC\_OUT | H2 | CVDD\_ADC |
| AW4 | AVDD\_DIG\_IO | V5 | DVDD\_MODEM |
| AW5 | DFE\_DATA\_ADC\_1 | R13 | modem\_dfe\_data\_adc[1] |
| AW6 | DFE\_DATA\_ADC\_3 | R12 | modem\_dfe\_data\_adc[3] |
| AW7 | DFE\_DATA\_ADC\_6 | T10 | modem\_dfe\_data\_adc[6] |
| AW8 | DFE\_DATA\_ADC\_9 | R9 | modem\_dfe\_data\_adc[9] |
| AW9 | DFE\_RF\_FRAME |  |  |
| AW10 | RSTN | G6 | gnss\_rst |
| AW11 | MOSI | P5 | modem\_spi\_mosi |
| AW12 | AVDD\_DIG\_IO | V5 | DVDD\_MODEM |
| AW13 | DVDD\_DIG | V5 | DVDD\_MODEM |
| AW14 | DVDD\_DIG | V5 | DVDD\_MODEM |
| AW15 | AVDD\_VR\_DIG | V5 | DVDD\_MODEM |
| AW16 | AVDD\_VR\_DIG | V5 | DVDD\_MODEM |
| AW17 | DFE\_TX\_FRAME | HNone, T7 | modem\_dfe\_txframe |
| AW18 | DFE\_DATA\_DAC\_3 | J5 | modem\_dfe\_data\_dac[3] |
| AW19 | DFE\_DATA\_DAC\_7 | L5 | modem\_dfe\_data\_dac[7] |
| AW20 | AVDD\_DIG\_IO | V5 | DVDD\_MODEM |
| AW21 | AVDD\_DIG\_IO | V5 | DVDD\_MODEM |
| AW22 | GND\_ESD\_DIG | V4 | DGND\_MODEM |
| AW23 | NC |  |  |
| AW24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AW25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AW26 | MODEM\_MODEM\_DFE\_DATA\_TX15 | N5 | modem\_dfe\_data\_dac[11] |
| AW27 | MODEM\_MODEM\_DFE\_DATA\_TX13 | M5 | modem\_dfe\_data\_dac[9] |
| AW28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AW29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AW30 | MODEM\_MODEM\_DFE\_DATA\_TX14 | N4 | modem\_dfe\_data\_dac[10] |
| AW31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AW32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AW33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AW34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AW35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AW36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AW37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AW38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AW39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AW40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AW41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AW42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AW43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AW44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AW45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AW46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AW47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AW48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AW49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AW50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AW51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AW52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AW53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AW54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AW55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AW56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AW57 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AW58 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AW59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AW60 | GNSS\_GPMC\_D\_13 | E15 | D[13] |
| AW61 | GNSS\_GPMC\_D\_14 | D16 | D[14] |
| AY1 | GND\_VR\_ADC | W4 | AGND\_MODEM\_BB\_RX |
| AY2 | AVDD\_VR\_ADC | W5 | AVDD\_MODEM\_BB\_RX |
| AY3 | VR\_ADC\_OUT | H2 | CVDD\_ADC |
| AY4 | AVDD\_DIG\_IO | V5 | DVDD\_MODEM |
| AY5 | DFE\_DATA\_ADC\_0 | T13 | modem\_dfe\_data\_adc[0] |
| AY6 | DFE\_DATA\_ADC\_2 | T12 | modem\_dfe\_data\_adc[2] |
| AY7 | DFE\_DATA\_ADC\_5 | R11 | modem\_dfe\_data\_adc[5] |
| AY8 | DFE\_DATA\_ADC\_8 | T9 | modem\_dfe\_data\_adc[8] |
| AY9 | DFE\_DATA\_ADC\_11 | R8 | modem\_dfe\_data\_adc[11] |
| AY10 | SCSN | G4 | gnss\_spi\_scsn0 |
| AY11 | MISO | P4 | modem\_spi\_miso |
| AY12 | AVDD\_DIG\_IO | V5 | DVDD\_MODEM |
| AY13 | DVDD\_IO | V6 | CVDD\_MODEM |
| AY14 | DVDD\_IO | V6 | CVDD\_MODEM |
| AY15 | VR\_DIG\_OUT | V6 | CVDD\_MODEM |
| AY16 | VR\_DIG\_OUT | V6 | CVDD\_MODEM |
| AY17 | DFE\_DATA\_DAC\_1 | H5 | modem\_dfe\_data\_dac[1] |
| AY18 | DFE\_DATA\_DAC\_4 | K4 | modem\_dfe\_data\_dac[4] |
| AY19 | DFE\_DATA\_DAC\_8 | M4 | modem\_dfe\_data\_dac[8] |
| AY20 | DFE\_DATA\_DAC\_10 | N4 | modem\_dfe\_data\_dac[10] |
| AY21 | AVDD\_DAC | W6 | AVDD\_MODEM\_BB\_TX |
| AY22 | GND\_DAC | W8 | AGND\_MODEM\_BB\_TX |
| AY23 | NC |  |  |
| AY24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AY25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AY26 | MODEM\_MODEM\_DFE\_DATA\_TX11 | L5 | modem\_dfe\_data\_dac[7] |
| AY27 | MODEM\_MODEM\_DFE\_DATA\_TX12 | M4 | modem\_dfe\_data\_dac[8] |
| AY28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AY29 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| AY30 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AY31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AY32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AY33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AY34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AY35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AY36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AY37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AY38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AY39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AY40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AY41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AY42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AY43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AY44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AY45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AY46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AY47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AY48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AY49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AY50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AY51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AY52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AY53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AY54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AY55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AY56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AY57 | NC |  |  |
| AY58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| AY59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| AY60 | NC |  |  |
| AY61 | GNSS\_GPMC\_D\_15 | E16 | D[15] |
| BA1 | GND\_ADC | W4 | AGND\_MODEM\_BB\_RX |
| BA2 | AVDD\_ADC | W5 | AVDD\_MODEM\_BB\_RX |
| BA3 | CVDD\_ADC |  |  |
| BA4 | NC |  |  |
| BA5 | NC |  |  |
| BA6 | NC |  |  |
| BA7 | NC |  |  |
| BA8 | NC |  |  |
| BA9 | NC |  |  |
| BA10 | NC |  |  |
| BA11 | NC |  |  |
| BA12 | NC |  |  |
| BA13 | NC |  |  |
| BA14 | NC |  |  |
| BA15 | NC |  |  |
| BA16 | NC |  |  |
| BA17 | DFE\_DATA\_DAC\_0 | H4 | modem\_dfe\_data\_dac[0] |
| BA18 | DFE\_DATA\_DAC\_5 | K5 | modem\_dfe\_data\_dac[5] |
| BA19 | DFE\_DATA\_DAC\_9 | M5 | modem\_dfe\_data\_dac[9] |
| BA20 | DFE\_DATA\_DAC\_11 | N5 | modem\_dfe\_data\_dac[11] |
| BA21 | AVDD\_DAC | W6 | AVDD\_MODEM\_BB\_TX |
| BA22 | GND\_DAC | W8 | AGND\_MODEM\_BB\_TX |
| BA23 | NC |  |  |
| BA24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BA25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BA26 | MODEM\_MODEM\_DFE\_DATA\_TX10 | L4 | modem\_dfe\_data\_dac[6] |
| BA27 | MODEM\_MODEM\_DFE\_DATA\_TX8 | K4 | modem\_dfe\_data\_dac[4] |
| BA28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BA29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BA30 | MODEM\_MODEM\_DFE\_DATA\_TX9 | K5 | modem\_dfe\_data\_dac[5] |
| BA31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BA32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BA33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BA34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BA35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BA36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BA37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BA38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BA39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BA40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BA41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BA42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BA43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BA44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BA45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BA46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BA47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BA48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BA49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BA50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BA51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BA52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BA53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BA54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BA55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BA56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BA57 | NC |  |  |
| BA58 | NC |  |  |
| BA59 | NC |  |  |
| BA60 | NC |  |  |
| BA61 | NC |  |  |
| BB1 | GND\_ADC | W4 | AGND\_MODEM\_BB\_RX |
| BB2 | AVDD\_ADC | W5 | AVDD\_MODEM\_BB\_RX |
| BB3 | CVDD\_ADC |  |  |
| BB4 | NC |  |  |
| BB5 | NC |  |  |
| BB6 | NC |  |  |
| BB7 | NC |  |  |
| BB8 | NC |  |  |
| BB9 | NC |  |  |
| BB10 | NC |  |  |
| BB11 | NC |  |  |
| BB12 | NC |  |  |
| BB13 | NC |  |  |
| BB14 | NC |  |  |
| BB15 | NC |  |  |
| BB16 | NC |  |  |
| BB17 | NC |  |  |
| BB18 | NC |  |  |
| BB19 | NC |  |  |
| BB20 | NC |  |  |
| BB21 | GND\_ESD\_DIG | V4 | DGND\_MODEM |
| BB22 | GND\_ESD\_DIG | V4 | DGND\_MODEM |
| BB23 | NC |  |  |
| BB24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BB25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BB26 | MODEM\_MODEM\_DFE\_DATA\_TX6 | J4 | modem\_dfe\_data\_dac[2] |
| BB27 | MODEM\_MODEM\_DFE\_DATA\_TX7 | J5 | modem\_dfe\_data\_dac[3] |
| BB28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BB29 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BB30 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BB31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BB32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BB33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BB34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BB35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BB36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BB37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BB38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BB39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BB40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BB41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BB42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BB43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BB44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BB45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BB46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BB47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BB48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BB49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BB50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BB51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BB52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BB53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BB54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BB55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BB56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BB57 | GNSS\_GPMC\_BA\_1 | F10 | BA[1] |
| BB58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BB59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BB60 | GNSS\_GPMC\_A10 | F12 | A10 |
| BB61 | GNSS\_GPMC\_BA\_0 | F11 | BA[0] |
| BC1 | GND\_ESD\_DIG | V4 | DGND\_MODEM |
| BC2 | REF\_ADC |  |  |
| BC3 | NC |  |  |
| BC4 | NC |  |  |
| BC5 | NC |  |  |
| BC6 | NC |  |  |
| BC7 | NC |  |  |
| BC8 | NC |  |  |
| BC9 | NC |  |  |
| BC10 | NC |  |  |
| BC11 | NC |  |  |
| BC12 | NC |  |  |
| BC13 | NC |  |  |
| BC14 | NC |  |  |
| BC15 | NC |  |  |
| BC16 | NC |  |  |
| BC17 | NC |  |  |
| BC18 | NC |  |  |
| BC19 | NC |  |  |
| BC20 | NC |  |  |
| BC21 | NC |  |  |
| BC22 | NC |  |  |
| BC23 | NC |  |  |
| BC24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BC25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BC26 | MODEM\_MODEM\_DFE\_DATA\_TX5 | H5 | modem\_dfe\_data\_dac[1] |
| BC27 | MODEM\_MODEM\_DFE\_DATA\_TX3 |  |  |
| BC28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BC29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BC30 | MODEM\_MODEM\_DFE\_DATA\_TX4 | H4 | modem\_dfe\_data\_dac[0] |
| BC31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BC32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BC33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BC34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BC35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BC36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BC37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BC38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BC39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BC40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BC41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BC42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BC43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BC44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BC45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BC46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BC47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BC48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BC49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BC50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BC51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BC52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BC53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BC54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BC55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BC56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BC57 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BC58 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BC59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BC60 | GNSS\_GPMC\_A\_0 | K16 | A[0] |
| BC61 | GNSS\_GPMC\_A\_1 | K15 | A[1] |
| BD1 | GND\_IF | Y4 | AGND\_MODEM\_IF\_RX |
| BD2 | AVDD\_IF | Y5 | AVDD\_MODEM\_IF\_RX |
| BD3 | GND\_ESD\_IF | Y4 | AGND\_MODEM\_IF\_RX |
| BD4 | NC |  |  |
| BD5 | NC |  |  |
| BD6 | NC |  |  |
| BD7 | NC |  |  |
| BD8 | NC |  |  |
| BD9 | NC |  |  |
| BD10 | NC |  |  |
| BD11 | NC |  |  |
| BD12 | NC |  |  |
| BD19 | NC |  |  |
| BD20 | NC |  |  |
| BD21 | NC |  |  |
| BD22 | NC |  |  |
| BD23 | NC |  |  |
| BD24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BD25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BD26 | MODEM\_MODEM\_DFE\_DATA\_TX1 |  |  |
| BD27 | MODEM\_MODEM\_DFE\_DATA\_TX2 |  |  |
| BD28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BD29 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BD30 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BD31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BD32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BD33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BD34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BD35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BD36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BD37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BD38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BD39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BD40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BD41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BD42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BD43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BD44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BD45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BD46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BD47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BD48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BD49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BD50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BD51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BD52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BD53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BD54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BD55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BD56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BD57 | GNSS\_GPMC\_A\_3 | J16 | A[3] |
| BD58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BD59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BD60 | GNSS\_GPMC\_A\_4 | J15 | A[4] |
| BD61 | GNSS\_GPMC\_A\_2 | J17 | A[2] |
| BE1 | GND\_IF | Y4 | AGND\_MODEM\_IF\_RX |
| BE2 | AVDD\_IF | Y5 | AVDD\_MODEM\_IF\_RX |
| BE3 | GND\_ESD\_IF | Y4 | AGND\_MODEM\_IF\_RX |
| BE8 | NC |  |  |
| BE9 | NC |  |  |
| BE10 | NC |  |  |
| BE11 | NC |  |  |
| BE12 | NC |  |  |
| BE19 | NC |  |  |
| BE20 | NC |  |  |
| BE21 | GND\_ESD\_TX\_LPF | Y8 | AGND\_MODEM\_IF\_TX |
| BE22 | GND\_ESD\_TX\_LPF | Y8 | AGND\_MODEM\_IF\_TX |
| BE23 | NC |  |  |
| BE24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BE25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BE26 | MODEM\_MODEM\_DFE\_DATA\_TX0 | HNone, T7 | modem\_dfe\_txframe |
| BE27 | NC |  |  |
| BE28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BE29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BE30 | NC |  |  |
| BE31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BE32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BE33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BE34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BE35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BE36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BE37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BE38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BE39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BE40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BE41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BE42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BE43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BE44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BE45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BE46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BE47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BE48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BE49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BE50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BE51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BE52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BE53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BE54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BE55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BE56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BE57 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BE58 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BE59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BE60 | GNSS\_GPMC\_A\_5 | H17 | A[5] |
| BE61 | GNSS\_GPMC\_A\_6 | H16 | A[6] |
| BF1 | NC |  |  |
| BF2 | NC |  |  |
| BF3 | NC |  |  |
| BF8 | NC |  |  |
| BF9 | NC |  |  |
| BF10 | NC |  |  |
| BF11 | NC |  |  |
| BF12 | NC |  |  |
| BF19 | NC |  |  |
| BF20 | NC |  |  |
| BF21 | AVDD\_TX\_LPF | Y6 | AVDD\_MODEM\_IF\_TX |
| BF22 | GND\_TX\_LPF | Y8 | AGND\_MODEM\_IF\_TX |
| BF23 | NC |  |  |
| BF24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BF25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BF26 | NC |  |  |
| BF27 | NC |  |  |
| BF28 | NC |  |  |
| BF29 | NC |  |  |
| BF30 | NC |  |  |
| BF31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BF32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BF33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BF34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BF35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BF36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BF37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BF38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BF39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BF40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BF41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BF42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BF43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BF44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BF45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BF46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BF47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BF48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BF49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BF50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BF51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BF52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BF53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BF54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BF55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BF56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BF57 | GNSS\_GPMC\_A\_8 | G17 | A[8] |
| BF58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BF59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BF60 | GNSS\_GPMC\_A\_9 | G16 | A[9] |
| BF61 | GNSS\_GPMC\_A\_7 | H15 | A[7] |
| BG1 | NC |  |  |
| BG2 | NC |  |  |
| BG3 | NC |  |  |
| BG8 | NC |  |  |
| BG9 | NC |  |  |
| BG10 | NC |  |  |
| BG11 | NC |  |  |
| BG12 | NC |  |  |
| BG19 | NC |  |  |
| BG20 | NC |  |  |
| BG21 | AVDD\_TX\_LPF | Y6 | AVDD\_MODEM\_IF\_TX |
| BG22 | GND\_TX\_LPF | Y8 | AGND\_MODEM\_IF\_TX |
| BG23 | NC |  |  |
| BG24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BG25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BG26 | NC |  |  |
| BG27 | NC |  |  |
| BG28 | NC |  |  |
| BG29 | NC |  |  |
| BG30 | NC |  |  |
| BG31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BG32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BG33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BG34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BG35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BG36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BG37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BG38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BG39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BG40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BG41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BG42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BG43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BG44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BG45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BG46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BG47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BG48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BG49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BG50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BG51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BG52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BG53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BG54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BG55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BG56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BG57 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BG58 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BG59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BG60 | GNSS\_GPMC\_A\_10 | G15 | A[10] |
| BG61 | GNSS\_GPMC\_A\_11 | F16 | A[11] |
| BH1 | GND\_IF | Y4 | AGND\_MODEM\_IF\_RX |
| BH2 | AVDD\_IF | Y5 | AVDD\_MODEM\_IF\_RX |
| BH3 | GND\_ESD\_IF | Y4 | AGND\_MODEM\_IF\_RX |
| BH8 | NC |  |  |
| BH9 | NC |  |  |
| BH10 | NC |  |  |
| BH11 | NC |  |  |
| BH12 | NC |  |  |
| BH13 | NC |  |  |
| BH21 | AVDD\_TX\_MIX | V13 | AVDD\_MODEM\_RF\_TX |
| BH22 | GND\_TX\_MIX | V12 | AGND\_MODEM\_RF\_TX |
| BH23 | NC |  |  |
| BH24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BH25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BH26 | MODEM\_MODEM\_DFE\_PA\_EN |  |  |
| BH27 | NC |  |  |
| BH28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BH29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BH30 | MODEM\_MODEM\_DFE\_CLK | R6 | modem\_dfe\_clk |
| BH31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BH32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BH33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BH34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BH35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BH36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BH37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BH38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BH39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BH40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BH41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BH42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BH43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BH44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BH45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BH46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BH47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BH48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BH49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BH50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BH51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BH52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BH53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BH54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BH55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BH56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BH57 | GNSS\_GPMC\_A\_13 | F14 | A[13] |
| BH58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BH59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BH60 | GNSS\_GPMC\_A\_14 | F13 | A[14] |
| BH61 | GNSS\_GPMC\_A\_12 | F15 | A[12] |
| BJ1 | GND\_IF | Y4 | AGND\_MODEM\_IF\_RX |
| BJ2 | AVDD\_IF | Y5 | AVDD\_MODEM\_IF\_RX |
| BJ3 | GND\_ESD\_IF | Y4 | AGND\_MODEM\_IF\_RX |
| BJ8 | NC |  |  |
| BJ9 | NC |  |  |
| BJ10 | NC |  |  |
| BJ11 | NC |  |  |
| BJ12 | NC |  |  |
| BJ13 | NC |  |  |
| BJ21 | AVDD\_TX\_MIX | V13 | AVDD\_MODEM\_RF\_TX |
| BJ22 | GND\_TX\_MIX | V12 | AGND\_MODEM\_RF\_TX |
| BJ23 | NC |  |  |
| BJ24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BJ25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BJ26 | NC |  |  |
| BJ27 | NC |  |  |
| BJ28 | NC |  |  |
| BJ29 | NC |  |  |
| BJ30 | NC |  |  |
| BJ31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BJ32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BJ33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BJ34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BJ35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BJ36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BJ37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BJ38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BJ39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BJ40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BJ41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BJ42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BJ43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BJ44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BJ45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BJ46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BJ47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BJ48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BJ49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BJ50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BJ51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BJ52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BJ53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BJ54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BJ55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BJ56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BJ57 | NC |  |  |
| BJ58 | NC |  |  |
| BJ59 | NC |  |  |
| BJ60 | NC |  |  |
| BJ61 | NC |  |  |
| BK1 | NC |  |  |
| BK2 | NC |  |  |
| BK3 | NC |  |  |
| BK8 | NC |  |  |
| BK9 | NC |  |  |
| BK10 | NC |  |  |
| BK11 | NC |  |  |
| BK12 | NC |  |  |
| BK13 | NC |  |  |
| BK21 | GND\_ESD\_TX\_MIX | V12 | AGND\_MODEM\_RF\_TX |
| BK22 | GND\_ESD\_TX\_MIX | V12 | AGND\_MODEM\_RF\_TX |
| BK23 | NC |  |  |
| BK24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BK25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BK26 | MODEM\_MODEM\_DFE\_DATA\_RX15 | R8 | modem\_dfe\_data\_adc[11] |
| BK27 | MODEM\_MODEM\_DFE\_DATA\_RX13 | R9 | modem\_dfe\_data\_adc[9] |
| BK28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BK29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BK30 | MODEM\_MODEM\_DFE\_DATA\_RX14 | T8 | modem\_dfe\_data\_adc[10] |
| BK31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BK32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BK33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BK34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BK35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BK36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BK37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BK38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BK39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BK40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BK41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BK42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BK43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BK44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BK45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BK46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BK47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BK48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BK49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BK50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BK51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BK52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BK53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BK54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BK55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BK56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BK57 | NC |  |  |
| BK58 | NC |  |  |
| BK59 | NC |  |  |
| BK60 | NC |  |  |
| BK61 | NC |  |  |
| BL1 | GND\_RF | W1, W2, W3, Y1, Y3 | GND\_MODEM\_RF\_IN |
| BL2 | AVDD\_RF | U3 | AVDD\_MODEM\_RF\_RX |
| BL3 | GND\_ESD\_RF | V3 | AGND\_MODEM\_RF\_RX |
| BL4 | NC |  |  |
| BL21 | NC |  |  |
| BL22 | NC |  |  |
| BL23 | NC |  |  |
| BL24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BL25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BL26 | MODEM\_MODEM\_DFE\_DATA\_RX11 | R10 | modem\_dfe\_data\_adc[7] |
| BL27 | MODEM\_MODEM\_DFE\_DATA\_RX12 | T9 | modem\_dfe\_data\_adc[8] |
| BL28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BL29 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BL30 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BL31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BL32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BL33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BL34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BL35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BL36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BL37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BL38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BL39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BL40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BL41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BL42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BL43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BL44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BL45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BL46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BL47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BL48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BL49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BL50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BL51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BL52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BL53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BL54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BL55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BL56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BL57 | GNSS\_GPMC\_SCAS | D17 | SCAS |
| BL58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BL59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BL60 | GNSS\_GPMC\_SWE | N15 | SWE |
| BL61 | GNSS\_GPMC\_SRAS | E17 | SRAS |
| BM1 | GND\_RF | W1, W2, W3, Y1, Y3 | GND\_MODEM\_RF\_IN |
| BM2 | AVDD\_RF | U3 | AVDD\_MODEM\_RF\_RX |
| BM3 | GND\_ESD\_RF | V3 | AGND\_MODEM\_RF\_RX |
| BM4 | NC |  |  |
| BM21 | NC |  |  |
| BM22 | NC |  |  |
| BM23 | NC |  |  |
| BM24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BM25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BM26 | MODEM\_MODEM\_DFE\_DATA\_RX10 | T10 | modem\_dfe\_data\_adc[6] |
| BM27 | MODEM\_MODEM\_DFE\_DATA\_RX8 | T11 | modem\_dfe\_data\_adc[4] |
| BM28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BM29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BM30 | MODEM\_MODEM\_DFE\_DATA\_RX9 | R11 | modem\_dfe\_data\_adc[5] |
| BM31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BM32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BM33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BM34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BM35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BM36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BM37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BM38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BM39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BM40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BM41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BM42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BM43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BM44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BM45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BM46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BM47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BM48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BM49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BM50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BM51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BM52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BM53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BM54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BM55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BM56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BM57 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BM58 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BM59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BM60 | GNSS\_GPMC\_CKE | F8 | CKE |
| BM61 | GNSS\_GPMC\_DQM\_0 | N17 | DQM[0] |
| BN1 | GND\_RF | W1, W2, W3, Y1, Y3 | GND\_MODEM\_RF\_IN |
| BN2 | GND\_RF | W1, W2, W3, Y1, Y3 | GND\_MODEM\_RF\_IN |
| BN3 | NC |  |  |
| BN4 | NC |  |  |
| BN7 | NC |  |  |
| BN8 | NC |  |  |
| BN9 | NC |  |  |
| BN21 | NC |  |  |
| BN22 | NC |  |  |
| BN23 | NC |  |  |
| BN24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BN25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BN26 | MODEM\_MODEM\_DFE\_DATA\_RX6 | T12 | modem\_dfe\_data\_adc[2] |
| BN27 | MODEM\_MODEM\_DFE\_DATA\_RX7 | R12 | modem\_dfe\_data\_adc[3] |
| BN28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BN29 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BN30 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BN31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BN32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BN33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BN34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BN35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BN36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BN37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BN38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BN39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BN40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BN41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BN42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BN43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BN44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BN45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BN46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BN47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BN48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BN49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BN50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BN51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BN52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BN53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BN54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BN55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BN56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BN57 | GNSS\_GPMC\_SCLK | M15 | SCLK |
| BN58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BN59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BN60 | GNSS\_GPMC\_NCS\_0 | F17 | nCS[0] |
| BN61 | GNSS\_GPMC\_DQM\_1 | M17 | DQM[1] |
| BP1 | GND\_RF | W1, W2, W3, Y1, Y3 | GND\_MODEM\_RF\_IN |
| BP2 | RF\_IN | Y2 | MODEM\_RF\_IN |
| BP7 | NC |  |  |
| BP8 | NC |  |  |
| BP9 | NC |  |  |
| BP21 | GND\_ESD\_PA | W12, Y12 | AGND\_TX\_PA |
| BP22 | GND\_ESD\_PA | W12, Y12 | AGND\_TX\_PA |
| BP23 | NC |  |  |
| BP24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BP25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BP26 | MODEM\_MODEM\_DFE\_DATA\_RX5 | R13 | modem\_dfe\_data\_adc[1] |
| BP27 | MODEM\_MODEM\_DFE\_DATA\_RX3 |  |  |
| BP28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BP29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BP30 | MODEM\_MODEM\_DFE\_DATA\_RX4 | T13 | modem\_dfe\_data\_adc[0] |
| BP31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BP32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BP33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BP34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BP35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BP36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BP37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BP38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BP39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BP40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BP41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BP42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BP43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BP44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BP45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BP46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BP47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BP48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BP49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BP50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BP51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BP52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BP53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BP54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BP55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BP56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BP57 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BP58 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BP59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BP60 | GNSS\_GPMC\_NCS\_1 | L15 | nCS[1] |
| BP61 | GNSS\_GPMC\_NCS\_2 | L16 | nCS[2] |
| BR1 | GND\_RF | W1, W2, W3, Y1, Y3 | GND\_MODEM\_RF\_IN |
| BR2 | GND\_RF | W1, W2, W3, Y1, Y3 | GND\_MODEM\_RF\_IN |
| BR3 | GND\_ESD\_RF | V3 | AGND\_MODEM\_RF\_RX |
| BR4 | NC |  |  |
| BR7 | NC |  |  |
| BR8 | NC |  |  |
| BR9 | NC |  |  |
| BR10 | NC |  |  |
| BR21 | AVDD\_PA | W13, Y13 | AVDD\_TX\_PA |
| BR22 | GND\_PA | W12, Y12 | AGND\_TX\_PA |
| BR23 | NC |  |  |
| BR24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BR25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BR26 | MODEM\_MODEM\_DFE\_DATA\_RX1 |  |  |
| BR27 | MODEM\_MODEM\_DFE\_DATA\_RX2 |  |  |
| BR28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BR29 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BR30 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BR31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BR32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BR33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BR34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BR35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BR36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BR37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BR38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BR39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BR40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BR41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BR42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BR43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BR44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BR45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BR46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BR47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BR48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BR49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BR50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BR51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BR52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BR53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BR54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BR55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BR56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BR57 | GNSS\_GPMC\_NWE | M16 | nWE |
| BR58 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BR59 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BR60 | GNSS\_GPMC\_NRD | N16 | nRD |
| BR61 | GNSS\_GPMC\_NCS\_3 | F7 | nCS[3] |
| BT1 | AVDD\_RF | U3 | AVDD\_MODEM\_RF\_RX |
| BT2 | AVDD\_RF | U3 | AVDD\_MODEM\_RF\_RX |
| BT3 | GND\_ESD\_RF | V3 | AGND\_MODEM\_RF\_RX |
| BT4 | NC |  |  |
| BT7 | NC |  |  |
| BT8 | NC |  |  |
| BT9 | NC |  |  |
| BT10 | NC |  |  |
| BT21 | AVDD\_PA | W13, Y13 | AVDD\_TX\_PA |
| BT22 | GND\_PA | W12, Y12 | AGND\_TX\_PA |
| BT23 | NC |  |  |
| BT24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BT25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BT26 | MODEM\_MODEM\_DFE\_DATA\_RX0 | R7 | modem\_dfe\_rxframe |
| BT27 | NC |  |  |
| BT28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BT29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BT30 | NC |  |  |
| BT31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BT32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BT33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BT34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BT35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BT36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BT37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BT38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BT39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BT40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BT41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BT42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BT43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BT44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BT45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BT46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BT47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BT48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BT49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BT50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BT51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BT52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BT53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BT54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BT55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BT56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BT57 | NC |  |  |
| BT58 | NC |  |  |
| BT59 | NC |  |  |
| BT60 | NC |  |  |
| BT61 | NC |  |  |
| BU1 | AVDD\_CREF | Y5 | AVDD\_MODEM\_IF\_RX |
| BU2 | AVDD\_CREF | Y5 | AVDD\_MODEM\_IF\_RX |
| BU3 | NC |  |  |
| BU4 | NC |  |  |
| BU5 | NC |  |  |
| BU6 | NC |  |  |
| BU7 | NC |  |  |
| BU8 | NC |  |  |
| BU9 | NC |  |  |
| BU10 | NC |  |  |
| BU11 | NC |  |  |
| BU12 | NC |  |  |
| BU13 | NC |  |  |
| BU21 | AVDD\_PA | W13, Y13 | AVDD\_TX\_PA |
| BU22 | GND\_PA | W12, Y12 | AGND\_TX\_PA |
| BU23 | NC |  |  |
| BU24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BU25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BU26 | MODEM\_MODEM\_SPI\_MISO | P4 | modem\_spi\_miso |
| BU27 | MODEM\_MODEM\_SPI\_SCSN | R4 | modem\_spi\_scsn |
| BU28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BU29 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BU30 | MODEM\_MODEM\_SPI\_MOSI | P5 | modem\_spi\_mosi |
| BU31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BU32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BU33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BU34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BU35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BU36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BU37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BU38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BU39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BU40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BU41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BU42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BU43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BU44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BU45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BU46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BU47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BU48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BU49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BU50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BU51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BU52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BU53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BU54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BU55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BU56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BU57 | NC |  |  |
| BU58 | NC |  |  |
| BU59 | NC |  |  |
| BU60 | NC |  |  |
| BU61 | NC |  |  |
| BV1 | GND\_CREF | Y4 | AGND\_MODEM\_IF\_RX |
| BV2 | R10K | T2 | R10K\_MODEM |
| BV3 | NC |  |  |
| BV4 | NC |  |  |
| BV5 | NC |  |  |
| BV6 | NC |  |  |
| BV7 | NC |  |  |
| BV8 | NC |  |  |
| BV9 | NC |  |  |
| BV10 | NC |  |  |
| BV11 | NC |  |  |
| BV12 | NC |  |  |
| BV13 | NC |  |  |
| BV21 | GND\_ESD\_PA | W12, Y12 | AGND\_TX\_PA |
| BV22 | GND\_ESD\_PA | W12, Y12 | AGND\_TX\_PA |
| BV23 | NC |  |  |
| BV24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BV25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BV26 | NC |  |  |
| BV27 | MODEM\_MODEM\_SPI\_SCLK | R5 | modem\_spi\_sclk, |
| BV28 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BV29 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BV30 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BV31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BV32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BV33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BV34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BV35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BV36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BV37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BV38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BV39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BV40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BV41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BV42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BV43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BV44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BV45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BV46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BV47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BV48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BV49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BV50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BV51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BV52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BV53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BV54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BV55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BV56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BV57 | NC |  |  |
| BV58 | NC |  |  |
| BV59 | NC |  |  |
| BV60 | NC |  |  |
| BV61 | NC |  |  |
| BW1 | GND\_CREF | Y4 | AGND\_MODEM\_IF\_RX |
| BW2 | R10K\_FB | T2 | R10K\_MODEM |
| BW3 | NC |  |  |
| BW4 | AVDD\_CP | U2 | AVDD\_MODEM\_PLL |
| BW5 | AVDD\_CP | U2 | AVDD\_MODEM\_PLL |
| BW6 | AVDD\_PLL | U2 | AVDD\_MODEM\_PLL |
| BW7 | AVDD\_PLL | U2 | AVDD\_MODEM\_PLL |
| BW8 | FLT\_OUT | T1 | F\_OUT\_MODEM |
| BW9 | AVDD\_VR\_PLL | U2 | AVDD\_MODEM\_PLL |
| BW10 | VR\_PLL\_OUT | T4 | CVDD\_MODEM\_PLL |
| BW11 | CVDD\_PLL | T4 | CVDD\_MODEM\_PLL |
| BW12 | CVDD\_QVCO | T4 | CVDD\_MODEM\_PLL |
| BW13 | NC |  |  |
| BW21 | GND\_ESD\_PA | W12, Y12 | AGND\_TX\_PA |
| BW22 | GND\_ESD\_PA | W12, Y12 | AGND\_TX\_PA |
| BW23 | NC |  |  |
| BW24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BW25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BW26 | NC |  |  |
| BW27 | NC |  |  |
| BW28 | NC |  |  |
| BW29 | NC |  |  |
| BW30 | NC |  |  |
| BW31 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BW32 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BW33 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BW34 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BW35 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BW36 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BW37 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BW38 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BW39 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BW40 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BW41 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BW42 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BW43 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BW44 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BW45 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BW46 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BW47 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BW48 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BW49 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BW50 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BW51 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BW52 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BW53 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BW54 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BW55 | CVDD | C15, C16, C17, C18, C19, H18, K19, L19, N18, V15, V16, V17, V18, V19 | CVDD |
| BW56 | VSS | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BW57 | NC |  |  |
| BW58 | NC |  |  |
| BW59 | NC |  |  |
| BW60 | NC |  |  |
| BW61 | NC |  |  |
| BY1 | GND\_ESD\_CREF | Y4 | AGND\_MODEM\_IF\_RX |
| BY2 | GND\_ESD\_CREF | Y4 | AGND\_MODEM\_IF\_RX |
| BY3 | NC |  |  |
| BY4 | GND\_CP | V2 | AGND\_MODEM\_PLL |
| BY5 | GND\_CP | V2 | AGND\_MODEM\_PLL |
| BY6 | GND\_PLL | V2 | AGND\_MODEM\_PLL |
| BY7 | GND\_PLL | V2 | AGND\_MODEM\_PLL |
| BY8 | FLT\_IN | T1 | F\_OUT\_MODEM |
| BY9 | AVDD\_VR\_PLL | U2 | AVDD\_MODEM\_PLL |
| BY10 | VR\_PLL\_OUT | T4 | CVDD\_MODEM\_PLL |
| BY11 | GND\_PLL | V2 | AGND\_MODEM\_PLL |
| BY12 | GND\_VCO | U4 | CGND\_MODEM\_PLL |
| BY13 | GND\_ESD\_PA | W12, Y12 | AGND\_TX\_PA |
| BY14 | AVDD\_PA | W13, Y13 | AVDD\_TX\_PA |
| BY15 | AVDD\_PA | W13, Y13 | AVDD\_TX\_PA |
| BY16 | AVDD\_PA | W13, Y13 | AVDD\_TX\_PA |
| BY17 | OUTP\_PA | Y10 | MODEM\_RF\_OUT |
| BY18 | OUTN\_PA | W9, W10, W11, Y9, Y11 | GND\_MODEM\_RF\_OUT |
| BY19 | GND\_ESD\_PA | W12, Y12 | AGND\_TX\_PA |
| BY20 | GND\_ESD\_PA | W12, Y12 | AGND\_TX\_PA |
| BY21 | GND\_ESD\_PA | W12, Y12 | AGND\_TX\_PA |
| BY22 | GND\_ESD\_PA | W12, Y12 | AGND\_TX\_PA |
| BY23 | NC |  |  |
| BY24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BY25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| BY26 | NC |  |  |
| BY27 | NC |  |  |
| BY28 | NC |  |  |
| BY29 | NC |  |  |
| BY30 | NC |  |  |
| BY31 | NC |  |  |
| BY32 | NC |  |  |
| BY33 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BY34 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BY35 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BY36 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BY37 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BY38 | NC |  |  |
| BY39 | NC |  |  |
| BY40 | NC |  |  |
| BY41 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BY42 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BY43 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BY44 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BY45 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BY46 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BY47 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BY48 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BY49 | NC |  |  |
| BY50 | NC |  |  |
| BY51 | NC |  |  |
| BY52 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BY53 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BY54 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BY55 | PVDD | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| BY56 | NC |  |  |
| BY57 | NC |  |  |
| BY58 | NC |  |  |
| BY59 | NC |  |  |
| BY60 | NC |  |  |
| BY61 | NC |  |  |
| CA2 | NC |  |  |
| CA3 | NC |  |  |
| CA4 | GND\_ESD\_PLL | V2 | AGND\_MODEM\_PLL |
| CA5 | GND\_ESD\_PLL | V2 | AGND\_MODEM\_PLL |
| CA6 | GND\_ESD\_PLL | V2 | AGND\_MODEM\_PLL |
| CA7 | GND\_ESD\_PLL | V2 | AGND\_MODEM\_PLL |
| CA8 | GND\_ESD\_PLL | V2 | AGND\_MODEM\_PLL |
| CA9 | GND\_VR\_PLL | V2 | AGND\_MODEM\_PLL |
| CA10 | GND\_VR\_PLL | V2 | AGND\_MODEM\_PLL |
| CA11 | GND\_ESD\_PLL | V2 | AGND\_MODEM\_PLL |
| CA12 | GND\_ESD\_PLL | V2 | AGND\_MODEM\_PLL |
| CA13 | GND\_ESD\_PA | W12, Y12 | AGND\_TX\_PA |
| CA14 | GND\_PA | W12, Y12 | AGND\_TX\_PA |
| CA15 | GND\_PA | W12, Y12 | AGND\_TX\_PA |
| CA16 | GND\_PA | W12, Y12 | AGND\_TX\_PA |
| CA17 | OUTP\_PA | Y10 | MODEM\_RF\_OUT |
| CA18 | OUTN\_PA | W9, W10, W11, Y9, Y11 | GND\_MODEM\_RF\_OUT |
| CA19 | GND\_ESD\_PA | W12, Y12 | AGND\_TX\_PA |
| CA20 | GND\_ESD\_PA | W12, Y12 | AGND\_TX\_PA |
| CA21 | GND\_ESD\_PA | W12, Y12 | AGND\_TX\_PA |
| CA22 | NC |  |  |
| CA23 | NC |  |  |
| CA24 | VDD\_RING | D18, D19, E18, E19, F18, F19, G19, P19, R18, R19, T18, T19, U18, U19 | IOVDD |
| CA25 | VSS\_RING | G3, H8, H9, H10, H11, H12, H13, H19, J8, J9, J10, J11, J12, J13, J18, J19, K8, K9, K10, K11, K12, K13, L8, L9, L10, L11, L12, L13, M8, M9, M10, M11, M12, M13, M18, M19, N8, N9, N10, N11, N12, N13, N19 | DGND |
| CA26 | NC |  |  |
| CA27 | NC |  |  |
| CA28 | NC |  |  |
| CA29 | NC |  |  |
| CA30 | NC |  |  |
| CA31 | NC |  |  |
| CA32 | NC |  |  |
| CA33 | APP\_NMI | W19 | NMI |
| CA34 | APP\_INT\_3 | U20 | INT[3] |
| CA35 | APP\_INT\_2 | V20 | INT[2] |
| CA36 | APP\_INT\_1 | W20 | INT[1] |
| CA37 | APP\_INT\_0 | Y20 | INT[0] |
| CA38 | NC |  |  |
| CA39 | NC |  |  |
| CA40 | NC |  |  |
| CA41 | APP\_GPIO\_7 | W15 | GPIO[7] |
| CA42 | APP\_GPIO\_6 | Y15 | GPIO[6] |
| CA43 | APP\_GPIO\_5 | W16 | GPIO[5] |
| CA44 | APP\_GPIO\_4 | Y16 | GPIO[4] |
| CA45 | APP\_GPIO\_3 | W17 | GPIO[3] |
| CA46 | APP\_GPIO\_2 | Y17 | GPIO[2] |
| CA47 | APP\_GPIO\_1 | W18 | GPIO[1] |
| CA48 | APP\_GPIO\_0 | Y18 | GPIO[0] |
| CA49 | NC |  |  |
| CA50 | NC |  |  |
| CA51 | NC |  |  |
| CA52 | APP\_I2S\_SDO0 | T15 | I2S\_SDO |
| CA53 | APP\_I2S\_WS | T16 | I2S\_WS |
| CA54 | APP\_I2S\_SDI0 | T14 | I2S\_SDI |
| CA55 | APP\_I2S\_CLK | U14 | I2S\_CLK |
| CA56 | NC |  |  |
| CA57 | NC |  |  |
| CA58 | NC |  |  |
| CA59 | NC |  |  |
| CA60 | NC |  |  |