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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 |  |  |