

U3A  
XC7AxxxT-FBG484

| BANK 13 | IO 0_13               |                       | Y17  | Y17  |
|---------|-----------------------|-----------------------|------|------|
|         | IO_L1P_T0_13          | IO_L1N_T0_13          | Y16  | AA16 |
|         | IO_L2P_T0_13          | IO_L2N_T0_13          | AB16 | AB16 |
|         | IO_L3P_T0_DQS_13      | IO_L3N_T0_DQS_13      | AB17 | AB17 |
|         | IO_L4P_T0_13          | IO_L4N_T0_13          | AA13 | AA13 |
|         | IO_L5P_T0_13          | IO_L5N_T0_13          | AB13 | AB13 |
|         | IO_L6P_T0_13          | IO_L6N_T0_VREF_13     | AA15 | AA15 |
|         | IO_L7P_T1_13          | IO_L7N_T1_13          | AB15 | AB15 |
|         | IO_L8P_T1_13          | IO_L8N_T1_13          | Y13  | Y13  |
|         | IO_L9P_T1_DQS_13      | IO_L9N_T1_DQS_13      | AA14 | AA14 |
|         | IO_L10P_T1_13         | IO_L10N_T1_13         | W14  | W14  |
|         | IO_L11P_T1_SRCC_13    | IO_L11N_T1_SRCC_13    | Y14  | Y14  |
|         | IO_L12P_T1_MRCC_13    | IO_L12N_T1_MRCC_13    | AB11 | AB11 |
|         | IO_L13P_T2_MRCC_13    | IO_L13N_T2_MRCC_13    | AB12 | AB12 |
|         | IO_L14P_T2_SRCC_13    | IO_L14N_T2_SRCC_13    | AA9  | AA9  |
|         | IO_L15P_T2_DQS_13     | IO_L15N_T2_DQS_13     | AB10 | AB10 |
|         | IO_L16P_T2_13         | IO_L16N_T2_13         | AA10 | AA10 |
|         | IO_L17P_T2_13         | IO_L17N_T2_13         | AA11 | AA11 |
|         | IO_L18P_T2_13         | IO_L18N_T2_13         | V10  | V10  |
|         | IO_L19P_T3_13         | IO_L19N_T3_13         | W10  | W10  |
|         | IO_L20P_T3_13         | IO_L20N_T3_13         | Y11  | Y11  |
|         | IO_L21P_T3_DQS_13     | IO_L21N_T3_DQS_13     | Y12  | Y12  |
|         | IO_L22P_T3_A05_D21_14 | IO_L22N_T3_A04_D20_14 | W11  | W11  |
|         | IO_L23P_T3_A03_D19_14 | IO_L23N_T3_A02_D18_14 | W12  | W12  |
|         | IO_L24P_T3_A01_D17_14 | IO_L24N_T3_A00_D16_14 | V13  | V13  |
|         | IO_L25P_T3_14         | IO_L25N_T3_14         | V14  | V14  |
|         | IO_L26P_T3_14         | IO_L26N_T3_14         | U15  | U15  |
|         | IO_L27P_T3_14         | IO_L27N_T3_14         | V15  | V15  |
|         | IO_L28P_T3_14         | IO_L28N_T3_14         | T14  | T14  |
|         | IO_L29P_T3_14         | IO_L29N_T3_14         | T15  | T15  |
|         | IO_L30P_T3_14         | IO_L30N_T3_14         | W15  | W15  |
|         | IO_L31P_T3_14         | IO_L31N_T3_14         | W16  | W16  |
|         | IO_L32P_T3_14         | IO_L32N_T3_14         | T16  | T16  |
|         | IO_L33P_T3_14         | IO_L33N_T3_14         | U16  | U16  |
|         | IO_L34P_T3_14         | IO_L34N_T3_14         | U16  | U16  |

U3D

|         |  |                    |     |       |
|---------|--|--------------------|-----|-------|
| BANK 16 |  | IO 0_16            | F15 |       |
|         |  | IO_L1P_T0_16       | F13 | L1 P  |
|         |  | IO_L1N_T0_16       | F14 | L1 N  |
|         |  | IO_L2P_T0_16       | F16 |       |
|         |  | IO_L2N_T0_16       | E17 |       |
|         |  | IO_L3P_T0_DQS_16   | C14 | L3 P  |
|         |  | IO_L3N_T0_DQS_16   | C15 | L3 N  |
|         |  | IO_L4P_T0_16       | E13 |       |
|         |  | IO_L4N_T0_16       | E14 |       |
|         |  | IO_L5P_T0_16       | F16 | L5 P  |
|         |  | IO_L5N_T0_16       | D16 | L5 N  |
|         |  | IO_L6P_T0_16       | D14 | L6 P  |
|         |  | IO_L6N_T0_VREF_16  | D15 | L6 N  |
|         |  | IO_L7P_T1_16       | B15 | L7 P  |
|         |  | IO_L7N_T1_16       | B16 | L7 N  |
|         |  | IO_L8P_T1_16       | C13 | L8 P  |
|         |  | IO_L8N_T1_16       | B13 | L8 N  |
|         |  | IO_L9P_T1_DQS_16   | A15 | L9 P  |
|         |  | IO_L9N_T1_DQS_16   | A16 | L9 N  |
|         |  | IO_L10P_T1_16      | A13 | L10 P |
|         |  | IO_L10N_T1_16      | A14 | L10 N |
|         |  | IO_L11P_T1_SRCC_16 | B17 | L11 P |
|         |  | IO_L11N_T1_SRCC_16 | B18 | L11 N |
|         |  | IO_L12P_T1_MRCC_16 | D17 |       |
|         |  | IO_L12N_T1_MRCC_16 | C17 |       |
|         |  | IO_L13P_T2_MRCC_16 | C18 | L13 P |
|         |  | IO_L13N_T2_MRCC_16 | C19 | L13 N |
|         |  | IO_L14P_T2_SRCC_16 | E19 | L14 P |
|         |  | IO_L14N_T2_SRCC_16 | D19 | L14 N |
|         |  | IO_L15P_T2_DQS_16  | F18 | L15 P |
|         |  | IO_L15N_T2_DQS_16  | E18 | L15 N |
|         |  | IO_L16P_T2_16      | B20 | L16 P |
|         |  | IO_L16N_T2_16      | A20 | L16 N |
|         |  | IO_L17P_T2_16      | A18 | L17 P |
|         |  | IO_L17N_T2_16      | A19 | L17 N |
|         |  | IO_L18P_T2_16      | F19 | L18 P |
|         |  | IO_L18N_T2_16      | F20 | L18 N |
|         |  | IO_L19P_T3_16      | D20 | L19 P |
|         |  | IO_L19N_T3_VREF_16 | C20 | L19 N |
|         |  | IO_L20P_T3_16      | C22 | L20 P |
|         |  | IO_L20N_T3_16      | B22 | L20 N |
|         |  | IO_L21P_T3_DQS_16  | B21 | L21 P |
|         |  | IO_L21N_T3_DQS_16  | A21 | L21 N |
|         |  | IO_L22P_T3_16      | E22 | L22 P |
|         |  | IO_L22N_T3_16      | D22 | L22 N |
|         |  | IO_L23P_T3_16      | E21 | L23 P |
|         |  | IO_L23N_T3_16      | D21 | L23 N |
|         |  | IO_L24P_T3_16      | G21 | L24 P |
|         |  | IO_L24N_T3_16      | G22 | L24 N |
|         |  | IO_25_16           | F21 |       |

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|         |                         |                            |      |        |
|---------|-------------------------|----------------------------|------|--------|
| BANK 14 |                         | IO_0_14                    | P20  |        |
|         | IO_L1P_T0_D00_M0S1_14   | IO_L1N_T0_D01_D1N_14       | P22  | SPI_D0 |
|         | IO_L2P_T0_D02_14        | IO_L2N_T0_D03_14           | P21  | SPI_D1 |
|         | IO_L3P_T0_DQS_PUDC_B_14 | IO_L3N_T0_DQS_EMCCLK_14    | R21  | SPI_D2 |
|         |                         | IO_L4P_T0_D04_14           | U22  | U22    |
|         |                         | IO_L4N_T0_D05_14           | U22  | V22    |
|         |                         | IO_L5P_T0_D06_14           | T21  | T21    |
|         |                         | IO_L5N_T0_D07_14           | U21  | U21    |
|         |                         | IO_L6P_T0_FCS_B_14         | P19  | P19    |
|         |                         | IO_L6N_T0_D08_VREF_14      | R19  | R19    |
|         |                         | IO_L7P_T1_D09_14           | T19  | SPI_CS |
|         |                         | IO_L7N_T1_D10_14           | T20  | T20    |
|         |                         | IO_L8P_T1_D11_14           | W21  | W21    |
|         |                         | IO_L8N_T1_D12_14           | W22  | W22    |
|         |                         | IO_L9P_T1_DQS_14           | AA20 | AA20   |
|         |                         | IO_L9N_T1_DQS_D13_14       | AA21 | AA21   |
|         |                         | IO_L10P_T1_D14_14          | T21  | Y21    |
|         |                         | IO_L10N_T1_D15_14          | Y22  | Y22    |
|         |                         | IO_L11P_T1_SRCC_14         | AB21 | AB21   |
|         |                         | IO_L12P_T1_MRCC_14         | AB22 | AB22   |
|         |                         | IO_L13P_T2_MRCC_14         | U20  | U20    |
|         |                         | IO_L14P_T2_SRCC_14         | V20  | V20    |
|         |                         | IO_L15P_T2_DQS_RDWR_B_14   | W19  | GCLK   |
|         |                         | IO_L16P_T2_CSI_B_14        | W20  | W20    |
|         |                         | IO_L17P_T2_A14_D30_14      | Y18  | Y18    |
|         |                         | IO_L18P_T2_A12_D28_14      | Y19  | Y19    |
|         |                         | IO_L19P_T3_A09_D25_VREF_14 | V18  | V18    |
|         |                         | IO_L20P_T3_A08_D24_14      | V19  | V19    |
|         |                         | IO_L21P_T3_DQS_14          | AA19 | AA19   |
|         |                         | IO_L22P_T3_A05_D21_14      | AB20 | AB20   |
|         |                         | IO_L23P_T3_A03_D19_14      | V17  | V17    |
|         |                         | IO_L24P_T3_A01_D17_14      | W17  | W17    |
|         |                         | IO_L25P_T3_14              | AA18 | AA18   |
|         |                         |                            | AB18 | AB18   |
|         |                         |                            | U17  | U17    |
|         |                         |                            | U18  | U18    |
|         |                         |                            | P14  |        |
|         |                         |                            | R14  | R14    |
|         |                         |                            | R18  | R18    |
|         |                         |                            | T18  | T18    |
|         |                         | N17                        | N17  |        |
|         |                         | P17                        | P17  |        |
|         |                         | P15                        | P15  |        |
|         |                         | R16                        | R16  |        |
|         |                         | N13                        |      |        |
|         |                         | N14                        | N14  |        |
|         |                         | P16                        | P16  |        |
|         |                         | R17                        | R17  |        |
|         |                         | N15                        | N15  |        |
|         |                         |                            |      |        |

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UBE

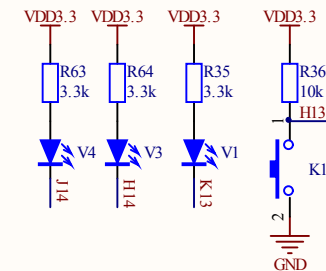
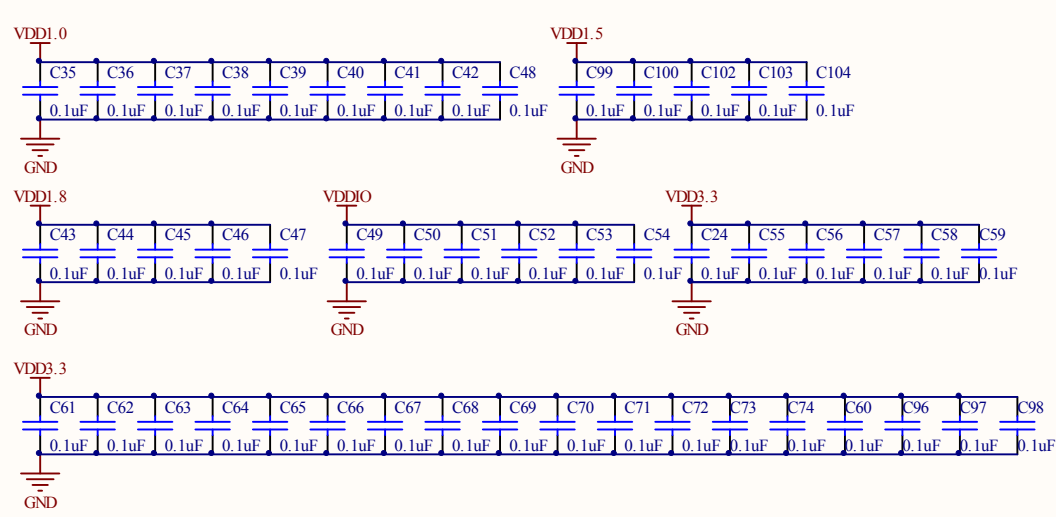
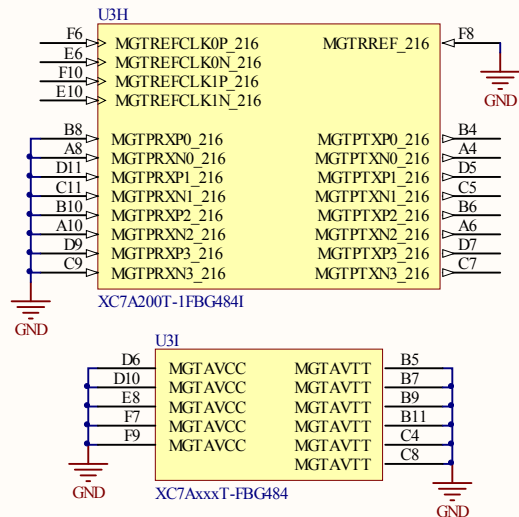
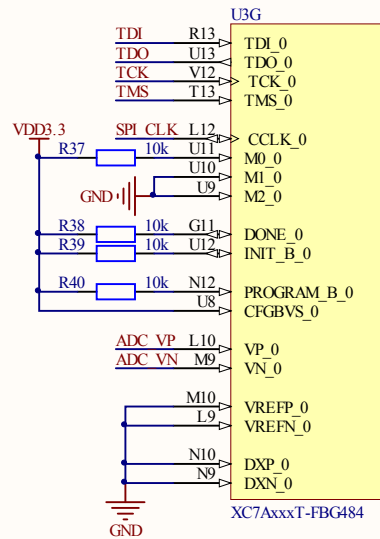
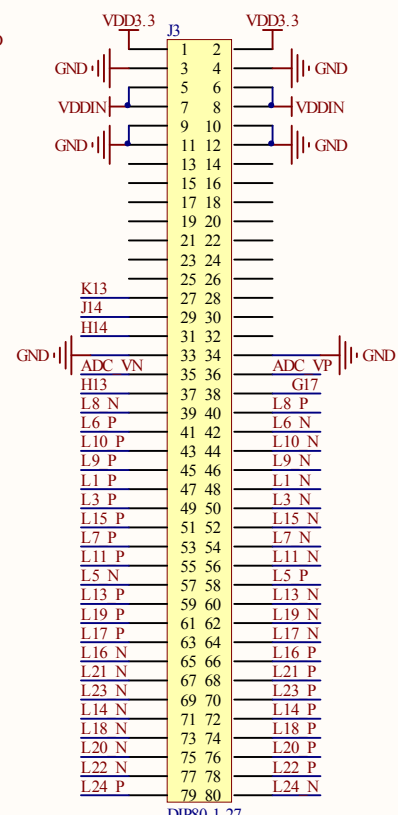
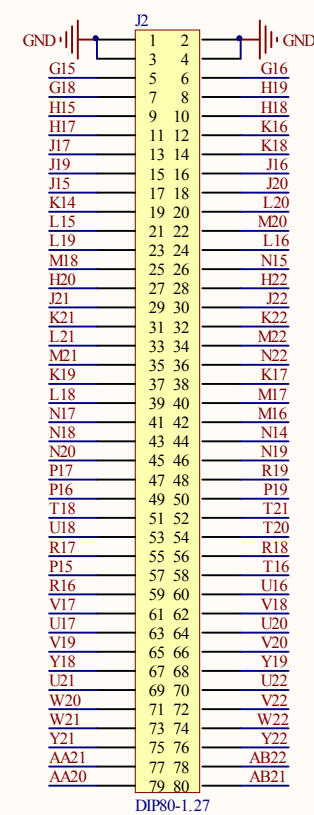
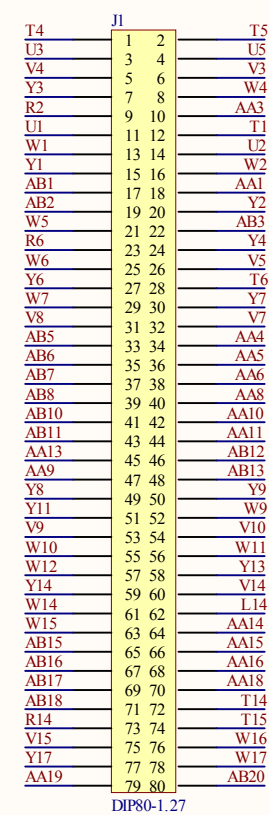
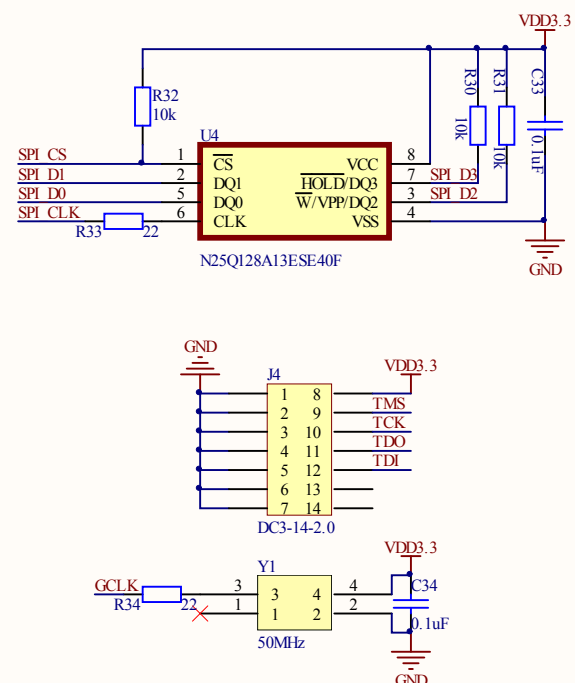
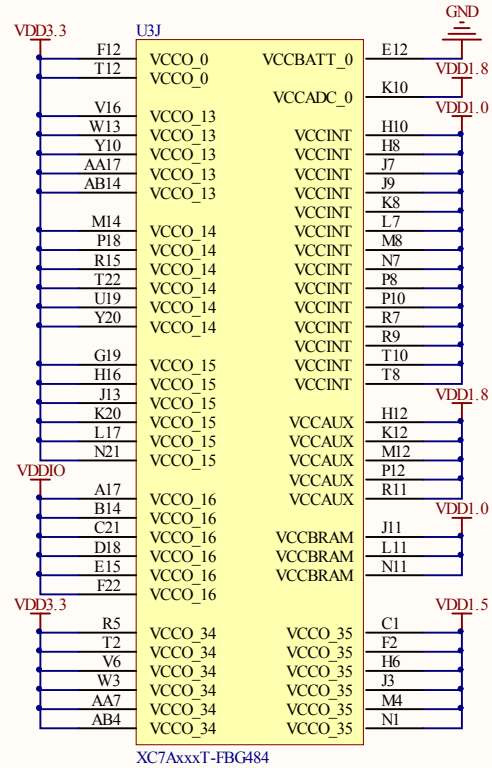
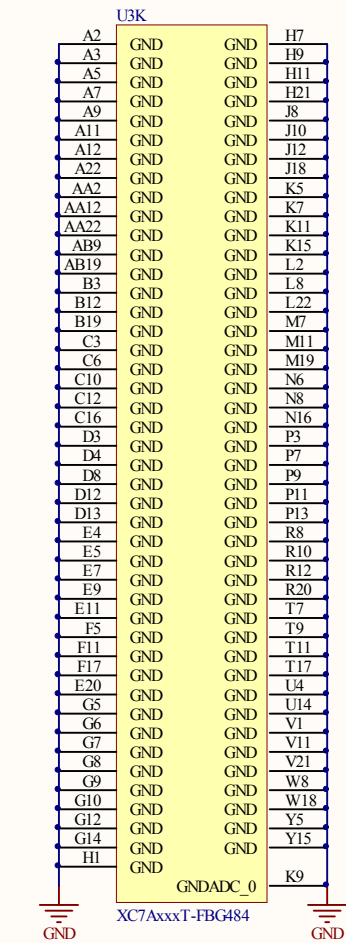
BANK 34

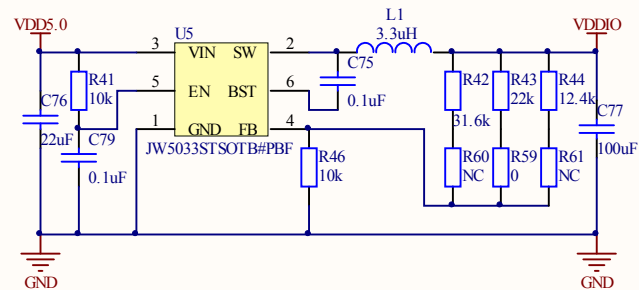
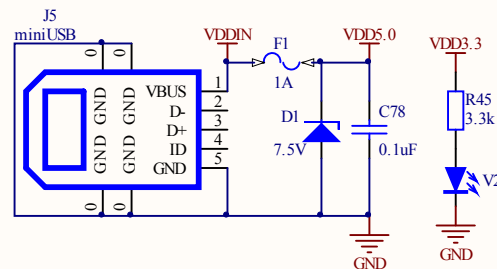
|                    |         |
|--------------------|---------|
| IO_0_34            | T3      |
| IO_L1P_T0_34       | T1 T1   |
| IO_L1N_T0_34       | U1 U1   |
| IO_L2P_T0_34       | U2 U2   |
| IO_L2N_T0_34       | Y2      |
| IO_L3P_T0_DQS_34   | R3      |
| IO_L3N_T0_DQS_34   | R2 R2   |
| IO_L4P_T0_34       | W2 W2   |
| IO_L4N_T0_34       | Y2 Y2   |
| IO_L5P_T0_34       | W1 W1   |
| IO_L5N_T0_34       | Y1 Y1   |
| IO_L6P_T0_34       | U3 U3   |
| IO_L6N_T0_VREF_34  | V3 V3   |
| IO_L7P_T1_34       | AA1 AA1 |
| IO_L7N_T1_34       | AB1 AB1 |
| IO_L8P_T1_34       | AB3 AB3 |
| IO_L8N_T1_34       | AB2 AB2 |
| IO_L9P_T1_DQS_34   | Y3 Y3   |
| IO_L9N_T1_DQS_34   | AA3 AA3 |
| IO_L10P_T1_34      | AA5 AA5 |
| IO_L10N_T1_34      | AB5 AB5 |
| IO_L11P_T1_SRCC_34 | Y4 Y4   |
| IO_L11N_T1_SRCC_34 | AA4 AA4 |
| IO_L12P_T1_MRCC_34 | V4 V4   |
| IO_L12N_T1_MRCC_34 | W4 W4   |
| IO_L13P_T2_MRCC_34 | R4      |
| IO_L13N_T2_MRCC_34 | T4 T4   |
| IO_L14P_T2_SRCC_34 | T5 T5   |
| IO_L14N_T2_SRCC_34 | U5 U5   |
| IO_L15P_T2_DQS_34  | W6 W6   |
| IO_L15N_T2_DQS_34  | W5 W5   |
| IO_L16P_T2_34      | U6      |
| IO_L16N_T2_34      | V5 V5   |
| IO_L17P_T2_34      | R6 R6   |
| IO_L17N_T2_34      | T6 T6   |
| IO_L18P_T2_34      | Y6 Y6   |
| IO_L18N_T2_34      | AA6 AA6 |
| IO_L19P_T3_34      | V7 V7   |
| IO_L19N_T3_VREF_34 | W7 W7   |
| IO_L20P_T3_34      | AB7 AB7 |
| IO_L20N_T3_34      | AB6 AB6 |
| IO_L21P_T3_DQS_34  | V9 V9   |
| IO_L21N_T3_DQS_34  | V8 V8   |
| IO_L22P_T3_34      | AA8 AA8 |
| IO_L22N_T3_34      | AB8 AB8 |
| IO_L23P_T3_34      | Y8 Y8   |
| IO_L23N_T3_34      | Y7 Y7   |
| IO_L24P_T3_34      | W9 W9   |
| IO_L24N_T3_34      | Y9 Y9   |
| IO_25_34           | U7      |

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U3C

|                         |                       |     |     |
|-------------------------|-----------------------|-----|-----|
| BANK 15                 | IO_0_15               | J16 | J16 |
|                         | IO_L1P_T0_AD0P_15     | H13 | H13 |
|                         | IO_L1N_T0_AD0N_15     | G13 |     |
|                         | IO_L2P_T0_AD8P_15     | G15 | G15 |
|                         | IO_L2N_T0_AD8N_15     | G16 | G16 |
|                         | IO_L3P_T0_DQS_AD1P_15 | J14 | J14 |
|                         | IO_L3N_T0_DQS_AD1N_15 | H14 | H14 |
|                         | IO_L4P_T0_15          | G17 | G17 |
|                         | IO_L4N_T0_15          | G18 | G18 |
|                         | IO_L5P_T0_AD9P_15     | J15 | J15 |
|                         | IO_L5N_T0_AD9N_15     | H15 | H15 |
|                         | IO_L6P_T0_15          | H17 | H17 |
|                         | IO_L6N_T0_VREF_15     | H18 | H18 |
|                         | IO_L7P_T1_AD2P_15     | J22 | J22 |
|                         | IO_L7N_T1_AD2N_15     | H22 | H22 |
|                         | IO_L8P_T1_AD10P_15    | J20 | J20 |
|                         | IO_L8N_T1_AD10N_15    | G20 |     |
|                         | IO_L9P_T1_DQS_AD3P_15 | K21 | K21 |
|                         | IO_L9N_T1_DQS_AD3N_15 | K22 | K22 |
|                         | IO_L10P_T1_AD11P_15   | M21 | M21 |
|                         | IO_L10N_T1_AD11N_15   | J21 | L21 |
|                         | IO_L11P_T1_SRCC_15    | J20 | J20 |
|                         | IO_L11N_T1_SRCC_15    | J21 | J21 |
|                         | IO_L12P_T1_MRCC_15    | J19 | J19 |
|                         | IO_L12N_T1_MRCC_15    | H19 | H19 |
|                         | IO_L13P_T2_MRCC_15    | K18 | K18 |
|                         | IO_L13N_T2_MRCC_15    | K19 | K19 |
|                         | IO_L14P_T2_SRCC_15    | L19 | L19 |
|                         | IO_L14N_T2_SRCC_15    | J20 | L20 |
|                         | IO_L15P_T2_DQS_15     | J22 | N22 |
| IO_L15N_T2_DQS_ADV_B_15 | M22                   | M22 |     |
| IO_L16P_T2_A28_15       | M18                   | M18 |     |
| IO_L16N_T2_A27_15       | L18                   | L18 |     |
| IO_L17P_T2_A26_15       | N18                   | N18 |     |
| IO_L17N_T2_A25_15       | N19                   | N19 |     |
| IO_L18P_T2_A24_15       | J20                   | N20 |     |
| IO_L18N_T2_A23_15       | M20                   | M20 |     |
| IO_L19P_T3_A22_15       | K13                   | K13 |     |
| IO_L19N_T3_A21_VREF_15  | K14                   | K14 |     |
| IO_L20P_T3_A20_15       | M13                   |     |     |
| IO_L20N_T3_A19_15       | L13                   |     |     |
| IO_L21P_T3_DQS_15       | K17                   | K17 |     |
| IO_L21N_T3_DQS_A18_15   | J17                   | J17 |     |
| IO_L22P_T3_A17_15       | L14                   | L14 |     |
| IO_L22N_T3_A16_15       | L15                   | L15 |     |
| IO_L23P_T3_FOE_B_15     | L16                   | L16 |     |
| IO_L23N_T3_FWE_B_15     | K16                   | K16 |     |
| IO_L24P_T3_RSI_15       | M15                   |     |     |
| IO_L24N_T3_RS0_15       | M16                   | M16 |     |
| IO_25_15                | M17                   | M17 |     |





VDDIO: 3.3v 2.5v 1.8v  
 R59: NC 0 NC  
 R60: 0 NC NC  
 R61: NC NC 0

