

EagleCore ZU-Plus SoM FMC easy reference

| Pin No. | FMC PIN | FPGA Pin Description | Zynq Ultrascale+ (XCZU3TEG-1SFVC784I) | Pin No. | FMC PIN | FPGA Pin Description | Zynq Ultrascale+ (XCZU3TEG-1SFVC784I) | Pin No. | FMC PIN | FPGA Pin Description | Zynq Ultrascale+ (XCZU3TEG-1SFVC784I) | Pin No. | FMC PIN | FPGA Pin Description | Zynq Ultrascale+ (XCZU3TEG-1SFVC784I) | Pin No. | FMC PIN | FPGA Pin Description | Zynq Ultrascale+ (XCZU3TEG-1SFVC784I) |
|---------|---------------|----------------------|---------------------------------------|---------|-------------------|----------------------|---------------------------------------|---------|---------------|----------------------|---------------------------------------|---------|-------------------|----------------------|---------------------------------------|---------|---------------|----------------------|---------------------------------------|
| A1 | GND | NA | GND | B1 | GND | NA | GND | C1 | GND | NA | GND | D1 | | | PG_C2M | E1 | GND | NA | GND |
| A2 | FMC_DP1_M2C_P | GTR_RX_01_P | D27 | B2 | GND | NA | GND | C2 | FMC_DP0_C2M_P | GTR_TX_00_P | E25 | D2 | GND | NA | GND | E2 | FMC_HA01_CC_P | HD_01_CC_P | E12 |
| A3 | FMC_DP1_M2C_N | GTR_RX_01_N | D28 | B3 | GND | NA | GND | C3 | FMC_DP0_C2M_N | GTR_TX_00_N | E26 | D3 | GND | NA | GND | E3 | FMC_HA01_CC_N | HD_01_CC_N | D11 |
| A4 | GND | NA | GND | B4 | NC | NC | NC | C4 | GND | NA | GND | D4 | FMC_GBTCLK0_M2C_P | GTR_CLK_00_P | F23 | E4 | GND | NA | GND |
| A5 | GND | NA | GND | B5 | NC | NC | NC | C5 | GND | NA | GND | D5 | FMC_GBTCLK0_M2C_N | GTR_CLK_00_N | F24 | E5 | GND | NA | GND |
| A6 | FMC_DP2_M2C_P | GTR_RX_02_P | B27 | B6 | GND | NA | GND | C6 | FMC_DP0_M2C_P | GTR_RX_00_P | F27 | D6 | GND | NA | GND | E6 | FMC_HA05_P | HD_05_P | C11 |
| A7 | FMC_DP2_M2C_N | GTR_RX_02_N | B28 | B7 | GND | NA | GND | C7 | FMC_DP0_M2C_N | GTR_RX_00_N | F28 | D7 | GND | NA | GND | E7 | FMC_HA05_N | HD_05_N | B10 |
| A8 | GND | NA | GND | B8 | NC | NC | NC | C8 | GND | NA | GND | D8 | FMC_LA01_CC_P | HP66_01_CC_P | G1 | E8 | GND | NA | GND |
| A9 | GND | NA | GND | B9 | NC | NC | NC | C9 | GND | NA | GND | D9 | FMC_LA01_CC_N | HP66_01_CC_N | F1 | E9 | FMC_HA09_P | HD_09_CC_N | F12 |
| A10 | FMC_DP3_M2C_P | GTR_RX_03_P | A25 | B10 | GND | NA | GND | C10 | FMC_LA06_CC_P | HP66_06_P | B4 | D10 | GND | NA | GND | E10 | FMC_HA09_N | HD_09_CC_N | F11 |
| A11 | FMC_DP3_M2C_N | GTR_RX_03_N | A26 | B11 | GND | NA | GND | C11 | FMC_LA06_CC_N | HP66_06_N | A4 | D11 | FMC_LA05_P | HP66_05_CC_P | C3 | E11 | GND | NA | GND |
| A12 | GND | NA | GND | B12 | FMC_DP7_M2C_P | GTH_RX_03_P | P2 | C12 | GND | NA | GND | D12 | FMC_LA05_N | HP66_05_CC_N | C2 | E12 | FMC_HA13_P | HD_13_P | B13 |
| A13 | GND | NA | GND | B13 | FMC_DP7_M2C_N | GTH_RX_03_N | P1 | C13 | GND | NA | GND | D13 | GND | NA | GND | E13 | FMC_HA13_N | HD_13_N | A13 |
| A14 | FMC_DP4_M2C_P | GTH_RX_00_P | Y2 | B14 | GND | NA | GND | C14 | FMC_LA10_P | HP66_10_P | C6 | D14 | FMC_LA09_P | HP66_09_P | A9 | E14 | GND | NA | GND |
| A15 | FMC_DP4_M2C_N | GTH_RX_00_N | Y1 | B15 | GND | NA | GND | C15 | FMC_LA10_N | HP66_10_N | B6 | D15 | FMC_LA09_N | HP66_09_N | A8 | E15 | FMC_HA16_P | HD_16_CC_P | D15 |
| A16 | GND | NA | GND | B16 | FMC_DP6_M2C_P | GTH_RX_02_P | T2 | C16 | GND | NA | GND | D16 | GND | NA | GND | E16 | FMC_HA16_N | HD_16_CC_N | D14 |
| A17 | GND | NA | GND | B17 | FMC_DP6_M2C_N | GTH_RX_02_N | T1 | C17 | GND | NA | GND | D17 | FMC_LA13_P | HP66_13_P | E9 | E17 | GND | NA | GND |
| A18 | FMC_DP5_M2C_P | GTH_RX_01_P | V2 | B18 | GND | NA | GND | C18 | FMC_LA14_P | HP66_14_P | F8 | D18 | FMC_LA13_N | HP66_13_N | D9 | E18 | FMC_HA20_P | HD_20_P | G15 |
| A19 | FMC_DP5_M2C_N | GTH_RX_01_N | V1 | B19 | GND | NA | GND | C19 | FMC_LA14_N | HP66_14_N | E8 | D19 | GND | NA | GND | E19 | FMC_HA20_N | HD_20_N | G14 |
| A20 | GND | NA | GND | B20 | FMC_GBTCLK1_M2C_P | GTR_CLK_03_P | A21 | C20 | GND | NA | GND | D20 | FMC_LA17_CC_P | HP66_17_P | G8 | E20 | GND | NA | GND |
| A21 | GND | NA | GND | B21 | FMC_GBTCLK1_M2C_N | GTR_CLK_03_N | A22 | C21 | GND | NA | GND | D21 | FMC_LA17_CC_N | HP66_17_N | F7 | E21 | FMC_HB03_P | HP65_03_P | U9 |
| A22 | FMC_DP1_C2M_P | GTR_TX_01_P | D23 | B22 | GND | NA | GND | C22 | FMC_LA18_CC_P | HP66_18_CC_P | G3 | D22 | GND | NA | GND | E22 | FMC_HB03_N | HP65_03_N | V9 |
| A23 | FMC_DP1_C2M_N | GTR_TX_01_N | D24 | B23 | GND | NA | GND | C23 | FMC_LA18_CC_N | HP66_18_CC_N | F3 | D23 | FMC_LA23_P | NC | NC | E23 | GND | NA | GND |
| A24 | GND | NA | GND | B24 | NC | NC | NC | C24 | GND | NA | GND | D24 | FMC_LA23_N | NC | NC | E24 | FMC_HB05_P | HP65_05_CC_P | H4 |
| A25 | GND | NA | GND | B25 | NC | NC | NC | C25 | GND | NA | GND | D25 | GND | NA | GND | E25 | FMC_HB05_N | HP65_05_CC_N | H3 |
| A26 | FMC_DP2_C2M_P | GTR_TX_02_P | C25 | B26 | GND | NA | GND | C26 | FMC_LA27_P | NC | NC | D26 | FMC_LA26_P | NC | NC | E26 | GND | NA | GND |
| A27 | FMC_DP2_C2M_N | GTR_TX_02_N | C26 | B27 | GND | NA | GND | C27 | FMC_LA27_N | NC | NC | D27 | FMC_LA26_N | NC | NC | E27 | FMC_HB09_P | HP65_09_CC_P | M6 |
| A28 | GND | NA | GND | B28 | NC | NC | NC | C28 | GND | NA | GND | D28 | GND | NA | GND | E28 | FMC_HB09_N | HP65_09_CC_N | L5 |
| A29 | GND | NA | GND | B29 | NC | NC | NC | C29 | GND | NA | GND | D29 | JTAG_TCK | | | E29 | GND | NA | GND |
| A30 | FMC_DP3_C2M_P | GTR_TX_03_P | B23 | B30 | GND | NA | GND | C30 | SCL_FMC | HD_22_CC_P | F15 | D30 | M_JTAG_TDO | | | E30 | FMC_HB13_P | HP65_13_CC_P | L3 |
| A31 | FMC_DP3_C2M_N | GTR_TX_03_N | B24 | B31 | GND | NA | GND | C31 | SDA_FMC | HD_22_CC_N | E15 | D31 | FMC_TDO | | | E31 | FMC_HB13_N | HP65_13_CC_N | L2 |
| A32 | GND | NA | GND | B32 | FMC_DP7_C2M_P | GTH_TX_03_P | N4 | C32 | GND | NA | GND | D32 | 3V3AUX | 3V3AUX | 3V3AUX | E32 | GND | NA | GND |
| A33 | GND | NA | GND | B33 | FMC_DP7_C2M_N | GTH_TX_03_N | N3 | C33 | GND | NA | GND | D33 | JTAG_TMS | | | E33 | FMC_HB19_P | HP65_19_P | K9 |
| A34 | FMC_DP4_C2M_P | GTH_TX_00_P | W4 | B34 | GND | NA | GND | C34 | GND | NA | GND | D34 | JTAG_RST | | | E34 | FMC_HB19_N | HP65_19_N | J9 |
| A35 | FMC_DP4_C2M_N | GTH_TX_00_N | W3 | B35 | GND | NA | GND | C35 | P12V0 | P12V0 | P12V0 | D35 | P3V3 | P3V3 | P3V3 | E35 | GND | NA | GND |
| A36 | GND | NA | GND | B36 | FMC_DP6_C2M_P | GTH_TX_02_P | R4 | C36 | GND | NA | GND | D36 | P3V3 | P3V3 | P3V3 | E36 | FMC_HB21_P | HP65_21_CC_P | P7 |
| A37 | GND | NA | GND | B37 | FMC_DP6_C2M_N | GTH_TX_02_N | R3 | C37 | P12V0 | P12V0 | P12V0 | D37 | GND | NA | GND | E37 | FMC_HB21_N | HP65_21_CC_N | P6 |
| A38 | FMC_DP5_C2M_P | GTH_TX_01_P | U4 | B38 | GND | NA | GND | C38 | GND | NA | GND | D38 | P3V3 | P3V3 | P3V3 | E38 | GND | NA | GND |
| A39 | FMC_DP5_C2M_N | GTH_TX_01_N | U3 | B39 | GND | NA | GND | C39 | P3V3 | P3V3 | P3V3 | D39 | GND | NA | GND | E39 | NA | NA | VADJ |
| A40 | GND | NA | GND | B40 | NC | NC | NC | C40 | GND | NA | GND | D40 | P3V3 | P3V3 | P3V3 | E40 | GND | NA | GND |

| Pin No. | FMC PIN | FPGA Pin Description | Zynq Ultrascale+ (XCZU3TEG-1SFVC784I) | Pin No. | FMC PIN | FPGA Pin Description | Zynq Ultrascale+ (XCZU3TEG-1SFVC784I) | Pin No. | FMC PIN | FPGA Pin Description | Zynq Ultrascale+ (XCZU3TEG-1SFVC784I) | Pin No. | FMC PIN | FPGA Pin Description | Zynq Ultrascale+ (XCZU3TEG-1SFVC784I) | Pin No. | FMC PIN | FPGA Pin Description | Zynq Ultrascale+ (XCZU3TEG-1SFVC784I) |
|---------|---------------|----------------------|---------------------------------------|---------|---------------|----------------------|---------------------------------------|---------|-------------|----------------------|---------------------------------------|---------|------------|----------------------|---------------------------------------|---------|---------------|----------------------|---------------------------------------|
| F1 | PG_M2C | | | G1 | GND | NA | GND | H1 | NC | NC | NC | J1 | GND | NA | GND | K1 | NC | NC | NC |
| F2 | GND | NA | GND | G2 | NC | NC | NC | H2 | PRSNT_M2C_L | PRSNT_L | AG13 | J2 | NC | NC | NC | K2 | GND | NA | GND |
| F3 | GND | NA | GND | G3 | NC | NC | NC | H3 | GND | NA | GND | J3 | NC | NC | NC | K3 | GND | NA | GND |
| F4 | FMC_HA00_CC_P | HD_00_CC_P | E10 | G4 | GND | NA | GND | H4 | NC | NC | NC | J4 | GND | NA | GND | K4 | NC | NC | NC |
| F5 | FMC_HA00_CC_N | HD_00_CC_N | D10 | G5 | GND | NA | GND | H5 | NC | NC | NC | J5 | GND | NA | GND | K5 | NC | NC | NC |
| F6 | GND | NA | GND | G6 | FMC_LA00_CC_P | HP66_00_CC_P | C1 | H6 | GND | NA | GND | J6 | FMC_HA03_P | HD_03_P | A12 | K6 | GND | NA | GND |
| F7 | FMC_HA04_P | HD_04_P | B11 | G7 | FMC_LA00_CC_N | HP66_00_CC_N | B1 | H7 | FMC_LA02_P | HP66_02_P | A2 | J7 | FMC_HA03_N | HD_03_N | A11 | K7 | FMC_HA02_P | HD_02_P | D12 |
| F8 | FMC_HA04_N | HD_04_N | A10 | G8 | GND | NA | GND | H8 | FMC_LA02_N | HP66_02_N | A1 | J8 | GND | NA | GND | K8 | FMC_HA02_N | HD_02_N | C12 |
| F9 | GND | NA | GND | G9 | FMC_LA03_P | HP66_03_P | E1 | H9 | GND | NA | GND | J9 | FMC_HA07_P | HD_07_P | H11 | K9 | GND | NA | GND |
| F10 | FMC_HA08_P | HD_08_N | J11 | G10 | FMC_LA03_N | HP66_03_N | D1 | H10 | FMC_LA04_P | HP66_04_P | B3 | J10 | FMC_HA07_N | HD_07_N | G10 | K10 | FMC_HA06_P | HD_06_CC_P | G11 |
| F11 | FMC_HA08_N | HD_08_N | J10 | G11 | GND | NA | GND | H11 | FMC_LA04_N | HP66_04_N | A3 | J11 | GND | NA | GND | K11 | FMC_HA06_N | HD_06_CC_N | F10 |
| F12 | GND | NA | GND | G12 | FMC_LA08_P | HP66_08_P | A7 | H12 | GND | NA | GND | J12 | FMC_HA11_P | HD_11_P | K13 | K12 | GND | NA | GND |
| F13 | FMC_HA12_P | HD_12_P | B15 | G13 | FMC_LA08_N | HP66_08_N | A6 | H13 | FMC_LA07_P | HP66_07_CC_P | B5 | J13 | FMC_HA11_N | HD_11_N | K12 | K13 | FMC_HA10_P | HD_10_P | J12 |
| F14 | FMC_HA12_N | HD_12_N | A15 | G14 | GND | NA | GND | H14 | FMC_LA07_N | HP66_07_CC_N | A5 | J14 | GND | NA | GND | K14 | FMC_HA10_N | HD_10_N | H12 |
| F15 | GND | NA | GND | G15 | FMC_LA12_P | HP66_12_P | C9 | H15 | GND | NA | GND | J15 | FMC_HA14_P | HD_14_P | B14 | K15 | GND | NA | GND |
| F16 | FMC_HA15_P | HD_15_P | C14 | G16 | FMC_LA12_N | HP66_12_N | B9 | H16 | FMC_LA11_P | HP66_11_CC_P | C8 | J16 | FMC_HA14_N | HD_14_N | A14 | K16 | FMC_HA17_CC_P | HD_17_CC_P | E14 |
| F17 | FMC_HA15_N | HD_15_N | C13 | G17 | GND | NA | GND | H17 | FMC_LA11_N | HP66_11_CC_N | B8 | J17 | GND | NA | GND | K17 | FMC_HA17_CC_N | HD_17_CC_N | E13 |
| F18 | GND | NA | GND | G18 | FMC_LA16_P | HP66_16_CC_P | D7 | H18 | GND | NA | GND | J18 | FMC_HA18_P | HD_18_CC_P | G13 | K18 | GND | NA | GND |
| F19 | FMC_HA19_P | HD_19_P | L14 | G19 | FMC_LA16_N | HP66_16_CC_N | D6 | H19 | FMC_LA15_P | HP66_15_CC_P | E5 | J19 | FMC_HA18_N | HD_18_CC_N | F13 | K19 | FMC_HA21_P | HD_21_P | H14 |
| F20 | FMC_HA19_N | HD_19_N | L13 | G20 | GND | NA | GND | H20 | FMC_LA15_N | HP66_15_CC_N | D5 | J20 | GND | NA | GND | K20 | FMC_HA21_N | HD_21_N | H13 |
| F21 | GND | NA | GND | G21 | FMC_LA20_P | HP66_20_P | E4 | H21 | GND | NA | GND | J21 | FMC_HA22_P | HD_23_P | K14 | K21 | GND | NA | GND |
| F22 | FMC_HB02_P | HP65_02_P | U8 | G22 | FMC_LA20_N | HP66_20_N | E3 | H22 | FMC_LA19_P | HP66_19_P | G5 | J22 | FMC_HA22_N | HD_23_N | J14 | K22 | FMC_HA23_P | HD_24_P | AE15 |
| F23 | FMC_HB02_N | HP65_02_N | V8 | G23 | GND | NA | GND | H23 | FMC_LA19_N | HP66_19_N | F5 | J23 | GND | NA | GND | K23 | FMC_HA23_N | HD_24_N | AE14 |
| F24 | GND | NA | GND | G24 | FMC_LA22_P | HP66_22_P | G6 | H24 | GND | NA | GND | J24 | FMC_HB01_P | HP65_01_CC_P | W8 | K24 | GND | NA | GND |
| F25 | FMC_HB04_P | HP65_04_P | R7 | G25 | FMC_LA22_N | HP66_22_N | F6 | H25 | FMC_LA21_P | HP66_21_P | F2 | J25 | FMC_HB01_N | HP65_01_CC_N | Y8 | K25 | FMC_HB00_CC_P | HP65_00_CC_P | R8 |
| F26 | FMC_HB04_N | HP65_04_N | T7 | G26 | GND | NA | GND | H26 | FMC_LA21_N | HP66_21_N | E2 | J26 | GND | NA | GND | K26 | FMC_HB00_CC_N | HP65_00_CC_N | T8 |
| F27 | GND | NA | GND | G27 | FMC_LA25_P | NC | NC | H27 | GND | NA | GND | J27 | FMC_HB07_P | HP65_07_P | R6 | K27 | GND | NA | GND |
| F28 | FMC_HB08_P | HP65_08_P | J1 | G28 | FMC_LA25_N | NC | NC | H28 | FMC_LA24_P | NC | NC | J28 | FMC_HB07_N | HP65_07_N | T6 | K28 | FMC_HB06_CC_P | HP65_06_P | L1 |
| F29 | FMC_HB08_N | HP65_08_N | H1 | G29 | GND | NA | GND | H29 | FMC_LA24_N | NC | NC | J29 | GND | NA | GND | K29 | FMC_HB06_CC_N | HP65_06_N | K1 |
| F30 | GND | NA | GND | G30 | FMC_LA29_P | MIO_30 | F16 | H30 | GND | NA | GND | J30 | FMC_HB11_P | HP65_11_CC_P | K4 | K30 | GND | NA | GND |
| F31 | FMC_HB12_P | HP65_12_P | J7 | G31 | NC | NC | NC | H31 | FMC_LA28_P | NC | NC | J31 | FMC_HB11_N | HP65_11_CC_N | K3 | K31 | FMC_HB10_P | HP65_10_P | K2 |
| F32 | FMC_HB12_N | HP65_12_N | H7 | G32 | GND | NA | GND | H32 | FMC_LA28_N | NC | NC | J32 | GND | NA | GND | K32 | FMC_HB10_N | HP65_10_N | J2 |
| F33 | GND | NA | GND | G33 | FMC_LA31_P | MIO_31 | H16 | H33 | GND | NA | GND | J33 | FMC_HB15_P | HP65_15_P | N9 | K33 | GND | NA | GND |
| F34 | FMC_HB16_P | HP65_16_P | M8 | G34 | NC | NC | NC | H34 | FMC_LA30_P | MIO_29 | G16 | J34 | FMC_HB15_N | HP65_15_N | N8 | K34 | FMC_HB14_P | HP65_14_P | N7 |
| F35 | FMC_HB16_N | HP65_16_N | L8 | G35 | GND | NA | GND | H35 | NC | NC | NC | J35 | GND | NA | GND | K35 | FMC_HB14_N | HP65_14_N | N6 |
| F36 | GND | NA | GND | G36 | FMC_LA33_P | MIO_27 | J15 | H36 | GND | NA | GND | J36 | FMC_HB18_P | HP65_18_CC_P | K8 | K36 | GND | NA | GND |
| F37 | FMC_HB20_P | HP65_20_CC_P | L7 | G37 | NC | NC | NC | H37 | FMC_LA32_P | MIO_28 | K15 | J37 | FMC_HB18_N | HP65_18_CC_N | K7 | K37 | FMC_HB17_CC_P | HP65_17_P | J5 |
| F38 | FMC_HB20_N | HP65_20_CC_N | L6 | G38 | GND | NA | GND | H38 | NC | NC | NC | J38 | GND | NA | GND | K38 | FMC_HB17_CC_N | HP65_17_N | J4 |
| F39 | GND | NA | GND | G39 | VADJ | VADJ | VADJ | H39 | GND | NA | GND | J39 | VIO_B_M2C | VIO_B_M2C | VIO_B_M2C | K39 | GND | NA | GND |
| F40 | VADJ | VADJ | VADJ | G40 | GND | NA | GND | H40 | VADJ | VADJ | VADJ | J40 | GND | NA | GND | K40 | NA | NA | VIO_B_M2C |

Note: HB bank of the FMC is only available for the part number XCZU3CG-1SFVC784I/XCZU3EG-1SFVC784I/