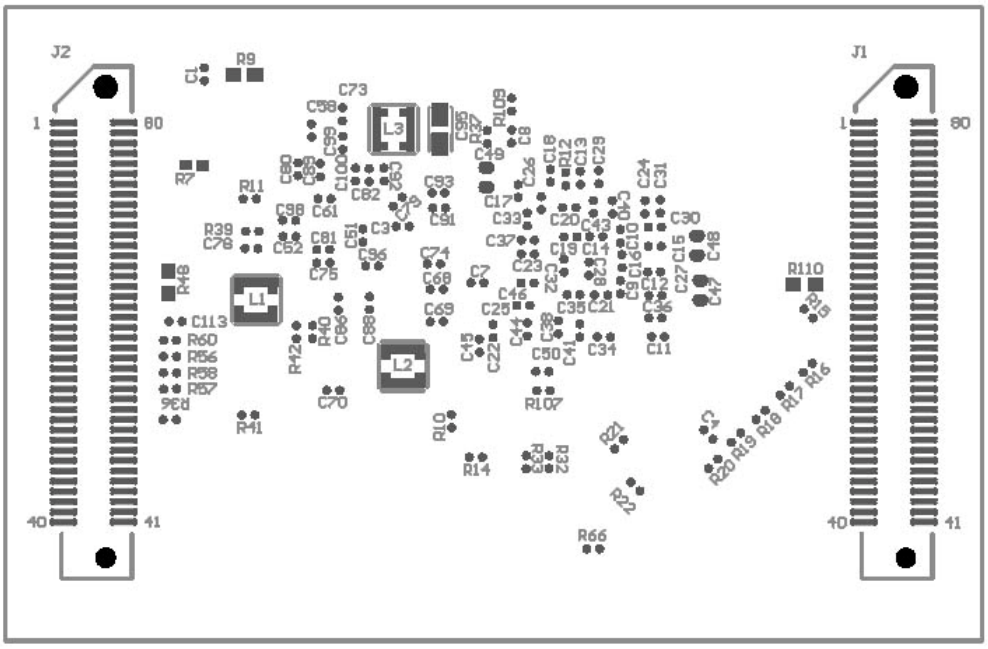


KBOCv090: Bottom View

The diagram shows the connector orientation from the bottom view: i.e., looking up at the bottom of the device.

These connectors utilized on the system module (a.k.a. “clip”) are FX6-80P-0.8SV. The stacking height of the connectors is an assembly configuration option. Please contact KwikByte if your application requires very small stacking height.

The corresponding connectors utilized on the base board are FX6-80S-0.8SV.

| SIGNAL | 35xx BALL | J1 PIN | J1 PIN | 35xx BALL | SIGNAL |
|---|---|---|---|---|---|
| VIO_1V8 | | 1 | 80 | | VIO_1V8 |
| VIO_1V8 | | 2 | 79 | J25* | DVI_PUP |
| DISP_HSYNC | D26 | 3 | 78 | E27 | DISP_EN |
| DISP_CLK | D28 | 4 | 77 | D27 | DISP_VSYNC |
| DISP_D8 | F27 | 5 | 76 | E26 | DISP_D6 |
| DISP_D9 | G26 | 6 | 75 | F28 | DISP_D7 |
| DISP_D20 | E28 | 7 | 74 | J26 | DISP_D21 |
| DISP_D18 | H26 | 8 | 73 | H25 | DISP_D19 |
| DISP_D16 | G25 | 9 | 72 | H27 | DISP_D17 |
| DISP_D11 | AD27 | 10 | 71 | AG22 | DISP_D0 |
| DISP_D12 | AB28 | 11 | 70 | AH22 | DISP_D1 |
| DISP_D13 | AB27 | 12 | 69 | AG23 | DISP_D2 |
| DISP_D14 | AA28 | 13 | 68 | AH23 | DISP_D3 |
| DISP_D15 | AA27 | 14 | 67 | AG24 | DISP_D4 |
| DISP_D22 | AC27 | 15 | 66 | AH24 | DISP_D5 |
| DISP_D23 | AC28 | 16 | 65 | AD28 | DISP_D10 |
| VIO_1V8 | | 17 | 64 | | VIO_1V8 |
| GND | | 18 | 63 | | GND |
| I2C3_SCL | AF14 | 19 | 62 | AG14 | I2C3_SDA |
| US1_TX | AA8 | 20 | 61 | Y8 | U21_RX |
| MCBSP1_DR | U21 | 21 | 60 | K26 | MCBSP1_FSX |
| MCBSP1_CLKX | W21 | 22 | 59 | V21 | MCBSP1_DX |
| MCBSP1_FSR | AA21 | 23 | 58 | Y21 | MCBSP1_CLKR |
| GND | | 24 | 57 | | GND |
| SPI1_SIMO | AB4 | 25 | 56 | AA4 | SPI1_SOMI |
| SPI1_CS3 | AB2 | 26 | 55 | AB3 | SPI1_CLK |
| VIO_1V8 | | 27 | 54 | | VIO_1V8 |
| MCBSP3_FSX | AE5 | 28 | 53 | AE6 | MCBSP3_DR |
| MCBSP3_DX | AF6 | 29 | 52 | AF5 | MCBSP3_CLKX |
| GND | | 30 | 51 | | GND |
| MMC2_DAT7 | AE3 | 31 | 50 | AE4 | MMC2_DAT4 |
| MMC2_DAT6 | AF3 | 32 | 49 | AE2 | MMC2_CLKO |
| MMC2_DAT3 | AF4 | 33 | 48 | AH3 | MMC2_DAT5 |
| MMC2_DAT2 | AG4 | 34 | 47 | AH4 | MMC2_DAT1 |
| MMC2_DAT0 | AH5 | 35 | 46 | AG5 | MMC2_CMD |
| N/C | | 36 | 45 | | N/C |
| N/C | | 37 | 44 | | N/C |
| N/C | | 38 | 43 | | N/C |
| I2C2_SDA | AE15 | 39 | 42 | AF15 | I2C2_SCL |
| GND | | 40 | 41 | | GND |

* = Buffered

| SIGNAL | 35xx BALL | J2 PIN | J2 PIN | 35xx BALL | SIGNAL |
|---|---|---|---|---|---|
| DC_5V | INPUT PWR | 1 | 80 | INPUT PWR | DC_5V |
| DC_5V | INPUT PWR | 2 | 79 | INPUT PWR | DC_5V |
| DC_5V | INPUT PWR | 3 | 78 | INPUT PWR | DC_5V |
| GND | | 4 | 77 | | GND |
| N/C | | 5 | 76 | R11 | USB_OTG_ID |
| N/C | | 6 | 75 | T10 | USB_OTG_P |
| N/C | | 7 | 74 | T11 | USB_OTG_N |
| N/C | | 8 | 73 | | N/C |
| GND | | 9 | 72 | | N/C |
| VIDEO_OUT1 | Y28 | 10 | 71 | | N/C |
| VIDEO_OUT2 | W28 | 11 | 70 | | N/C |
| GND | | 12 | 69 | | N/C |
| VBUS_5V0 | R8 | 13 | 68 | | GND |
| N/C | | 14 | 67 | B5 | HSOR |
| MICBIAS1 | D1 | 15 | 66 | B4 | HSOL |
| VBAT | A3,C1,B2 | 16 | 65 | A3,C1,B2 | VBAT |
| MIC.MAIN.P | E2 | 17 | 64 | G1 | AUXR |
| MIC.MAIN.M | F2 | 18 | 63 | F1 | AUXL |
| VIO_1V8 | | 19 | 62 | | VIO_1V8 |
| VMMC1 | K25, C2 | 20 | 61 | K25, C2 | VMMC1 |
| MMC1_DAT4 | P27 | 21 | 60 | P26 | MMC1_DAT5 |
| MMC1_DAT3 | P28 | 22 | 59 | N25 | MMC1_DAT2 |
| MMC1_DAT1 | N26 | 23 | 58 | M27 | MMC1_CMD |
| MMC1_DAT7 | R25 | 24 | 57 | N27 | MMC1_DAT0 |
| MMC1_CD | P12 | 25 | 56 | R27 | MMC1_DAT6 |
| MMC1_WP | AH8 | 26 | 55 | N28 | MMC1_CLKO |
| 3.3V | input source | 27 | 54 | input source | 3.3V |
| US3_TX | H21 | 28 | 53 | H20 | US3_RX |
| GND | | 29 | 52 | | GND |
| nRESET | AH25* | 30 | 51 | AE21 | SYS_BOOT5 |
| GND | | 31 | 50 | | GND |
| LED0_GPIO150 | W8 | 32 | 49 | AA9 | LED1_GPIO149 |
| REGEN | A10 | 33 | 48 | AE7 | USB1HS_nRST |
| GND | | 34 | 47 | | GND |
| USB1_DAT6 | AF13 | 35 | 46 | AH14 | USB1_DAT3 |
| USB1_DAT1 | AG12 | 36 | 45 | AE13 | USB1_DAT7 |
| USB1_DAT4 | AE11 | 37 | 44 | AH12 | USB1_DAT2 |
| USB1_DAT5 | AH9 | 38 | 43 | AF11 | USB1_DAT0 |
| USB1_DIR | AF9 | 39 | 42 | AG9 | USB1_NXT |
| USB1_CLK | AE10 | 40 | 41 | AF10 | USB1_STP |

* = Buffered from nRESPWRON
SIG = Ball listed on TPS659x0 power chip
User must supply +3.3V for correct operation of US3.
US3 signals are at +3.3V level as supplied by 3.3V input pins (2 pins).
VBUS_5V0 is normally connected to DC_5V