

# PicoCoreMX6UL100 GPIO Reference Card V1.1

18.10.2021

## Pin layout for Board Rev. 1.00

| J1 | Function                  | Device                              | GPIO         | Mode | /sys/class/gpio/gpio# | PcoreBBDSI 1.30 |
|----|---------------------------|-------------------------------------|--------------|------|-----------------------|-----------------|
| 1  | I2C_B_IRQn                | GPIO                                | GPIO1_IO01   | IO   | 1                     | J15-5 / J13-26  |
| 2  | GPIO_J1_2 <sup>(4)</sup>  | GPIO                                | GPIO3_IO28   | IO   | 92                    | J15-4           |
| 3  | I2C_B_SCL <sup>(1)</sup>  | I2C3                                | GPIO1_IO16   | IO   | 16                    | J15-3/J13-27    |
| 4  | I2C_A_SCL <sup>(1)</sup>  | I2C1                                | GPIO1_IO28   | IO   | 28                    | J11-16          |
| 5  | I2C_B_SDA <sup>(1)</sup>  | I2C3                                | GPIO1_IO17   | IO   | 17                    | J15-2/J13-25    |
| 6  | I2C_A_SDA <sup>(1)</sup>  | I2C1                                | GPIO1_IO29   | IO   | 29                    | J11-17          |
| 7  | GPIO_J1_7 <sup>(4)</sup>  | GPIO                                | GPIO3_IO27   | IO   | 91                    | J13-28          |
| 8  | GND                       |                                     |              |      |                       |                 |
| 9  | BL_ON                     | GPIO                                | GPIO5_IO04   | IO   | 132                   | J14-2           |
| 10 | CAN_A_RX <sup>(2)</sup>   | CAN1                                | GPIO1_IO27   | IO   | 27                    |                 |
| 11 | BL_PWM                    | PWM                                 | GPIO4_IO19   | IO   | 115                   | J14-3           |
| 12 | CAN_A_TX                  | CAN1                                | GPIO1_IO26   | IO   | 26                    |                 |
| 13 | VLCD_ON                   | GPIO                                | GPIO5_IO05   | IO   | 133                   | J14-1           |
| 14 | UART_A_RTS                | UART3                               | GPIO1_IO18   | IO   | 18                    | J11-36          |
| 15 | GND                       |                                     |              |      |                       |                 |
| 16 | UART_A_CTS                | UART3                               | GPIO1_IO19   | IO   | 19                    | J11-38          |
| 17 | DSI_A_CLK_P               | LVDS_A / (LCD_R5 <sup>(4)</sup> )   | (GPIO3_IO10) | (IO) | (74)                  |                 |
| 18 | UART_A_RXD <sup>(2)</sup> | UART3                               | GPIO1_IO03   | IO   | 3                     | (J9-3)          |
| 19 | DSI_A_CLK_N               | LVDS_A / (LCD_R4 <sup>(4)</sup> )   | (GPIO3_IO09) | (IO) | (73)                  |                 |
| 20 | UART_A_TXD                | UART3                               | GPIO1_IO02   | IO   | 2                     | (J9-5)          |
| 21 | GND                       |                                     |              |      |                       |                 |
| 22 | UART_B_RTS                | UART5                               | GPIO1_IO09   | IO   | 9                     | (J10-4)         |
| 23 | DSI_A_DATA0_P             | LVDS_A / (LCD_DE <sup>(4)</sup> )   | (GPIO3_IO01) | (IO) | (65)                  |                 |
| 24 | UART_B_CTS                | UART5                               | GPIO1_IO08   | IO   | 8                     | (J10-6)         |
| 25 | DSI_A_DATA0_N             | LVDS_A / (LCD_PCLK <sup>(4)</sup> ) | (GPIO3_IO00) | (IO) | (64)                  |                 |
| 26 | UART_B_RXD <sup>(2)</sup> | UART5                               | GPIO1_IO05   | IO   | 5                     | (J10-3)         |
| 27 | GND                       |                                     |              |      |                       |                 |
| 28 | UART_B_TXD                | UART5                               | GPIO1_IO04   | IO   | 4                     | (J10-5)         |
| 29 | DSI_A_DATA1_P             | LVDS_A / (LCD_R1 <sup>(4)</sup> )   | (GPIO3_IO06) | (IO) | (70)                  |                 |
| 30 | UART_C_RXD <sup>(2)</sup> | UART3                               | GPIO1_IO25   | IO   | 25                    | (J8-3)          |
| 31 | DSI_A_DATA1_N             | LVDS_A / (LCD_R0 <sup>(4)</sup> )   | (GPIO3_IO05) | (IO) | (69)                  |                 |
| 32 | UART_C_TXD                | UART3                               | GPIO1_IO24   | IO   | 24                    | (J8-5)          |
| 33 | GND                       |                                     |              |      |                       |                 |
| 34 | UART_D_RXD <sup>(2)</sup> | UART6                               | GPIO4_IO18   | IO   | 114                   | (J11-15)        |
| 35 | DSI_A_DATA2_P             | LVDS_A / (LCD_R3 <sup>(4)</sup> )   | (GPIO3_IO08) | (IO) | (72)                  |                 |
| 36 | UART_D_TXD                | UART6                               | GPIO4_IO17   | IO   | 113                   | (J11-13)        |

| J1 | Function                  | Device                            | GPIO         | Mode | /sys/class/gpio/gpio# | PcoreBBDSI 1.30 |
|----|---------------------------|-----------------------------------|--------------|------|-----------------------|-----------------|
| 37 | DSI_A_DATA2_N             | LVDS_A / (LCD_R2 <sup>(4)</sup> ) | (GPIO3_IO07) | (IO) | (71)                  |                 |
| 38 | GND                       |                                   |              |      |                       |                 |
| 39 | GND                       |                                   |              |      |                       |                 |
| 40 | I2C_C_SCL <sup>(1)</sup>  | I2C4                              | GPIO1_IO20   | IO   | 20                    |                 |
| 41 | DSI_A_DATA3_P             | LVDS_A / (LCD_G1 <sup>(4)</sup> ) | (GPIO3_IO12) | (IO) | (76)                  |                 |
| 42 | I2C_C_SDA <sup>(1)</sup>  | I2C4                              | GPIO1_IO21   | IO   | 21                    |                 |
| 43 | DSI_A_DATA3_N             | LVDS_A / (LCD_G0 <sup>(4)</sup> ) | (GPIO3_IO11) | (IO) | (75)                  |                 |
| 44 | GPIO_J1_44                | GPIO                              | GPIO1_IO22   | IO   | 22                    | J12-11          |
| 45 | GND                       |                                   |              |      |                       |                 |
| 46 | GPIO_J1_46                | GPIO                              | GPIO1_IO23   | IO   | 23                    |                 |
| 47 | DSI_B_CLK_P               | LVDS_B / (LCD_B3 <sup>(4)</sup> ) | (GPIO3_IO20) | (IO) | (84)                  |                 |
| 48 | I2C_D_SCL <sup>(1)</sup>  | I2C2                              | GPIO1_IO30   | IO   | 30                    | J12-13          |
| 49 | DSI_B_CLK_N               | LVDS_B / (LCD_B2 <sup>(4)</sup> ) | (GPIO3_IO19) | (IO) | (83)                  |                 |
| 50 | I2C_D_SDA <sup>(1)</sup>  | I2C2                              | GPIO1_31     | IO   | 31                    | J12-14          |
| 51 | GND                       |                                   |              |      |                       |                 |
| 52 | GPIO_J1_52 <sup>(4)</sup> | GPIO                              | GPIO3_IO02   | IO   | 66                    | J11-18          |
| 53 | DSI_B_DATA0_P             | LVDS_B / (LCD_G3 <sup>(4)</sup> ) | (GPIO3_IO14) | (IO) | (78)                  |                 |
| 54 | GPIO_J1_54 <sup>(4)</sup> | GPIO                              | GPIO3_IO03   | IO   | 67                    | J11-8           |
| 55 | DSI_B_DATA0_N             | LVDS_B / (LCD_G2 <sup>(4)</sup> ) | (GPIO3_IO13) | (IO) | (77)                  |                 |
| 56 | SPI_B_SS0 <sup>(3)</sup>  | ECSPI                             | GPIO4_IO26   | IO   | 122                   | J11-4           |
| 57 | GND                       |                                   |              |      |                       |                 |
| 58 | SPI_B_MISO <sup>(3)</sup> | ECPSPI                            | GPIO4_IO28   | IO   | 124                   | J11-5           |
| 59 | DSI_B_DATA1_P             | LVDS_B / (LCD_G5 <sup>(4)</sup> ) | (GPIO3_IO16) | (IO) | (80)                  |                 |
| 60 | SPI_B_MOSI <sup>(3)</sup> | ECSPI                             | GPIO4_IO27   | IO   | 123                   | J11-6           |
| 61 | DSI_B_DATA1_N             | LVDS_B / (LCD_G4 <sup>(4)</sup> ) | (GPIO3_IO15) | (IO) | (79)                  |                 |
| 62 | SPI_B_SCLK <sup>(3)</sup> | ECSPI                             | GPIO4_IO25   | IO   | 121                   | J11-3           |
| 63 | GND                       |                                   |              |      |                       |                 |
| 64 | SPI_A_SS0                 | ECSPI2                            | GPIO4_IO22   | IO   | 118                   |                 |
| 65 | DSI_B_DATA2_P             | LVDS_B / (LCD_B1 <sup>(4)</sup> ) | (GPIO3_IO18) | (IO) | (82)                  |                 |
| 66 | SPI_A_MISO                | ECSPI2                            | GPIO4_IO24   | IO   | 120                   |                 |
| 67 | DSI_B_DATA2_N             | LVDS_B / (LCD_B0 <sup>(4)</sup> ) | (GPIO3_IO17) | (IO) | (81)                  |                 |
| 68 | SPI_A_MOSI                | ECSPI2                            | GPIO4_IO23   | IO   | 119                   |                 |
| 69 | GND                       |                                   |              |      |                       |                 |
| 70 | SPI_A_SCLK                | ECSPI2                            | GPIO4_IO21   | IO   | 117                   |                 |
| 71 | DSI_B_DATA3_P             | LVDS_B /                          | (GPIO3_IO20) | (IO) | (84)                  |                 |

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| J1  | Function      | Device                            | GPIO         | Mode | /sys/class/gpio/gpio# | PcoreBBDISI 1.30 |
|-----|---------------|-----------------------------------|--------------|------|-----------------------|------------------|
|     |               | (LCD_B5 <sup>(4)</sup> )          |              |      |                       |                  |
| 72  | GND           |                                   |              |      |                       |                  |
| 73  | DSI_B_DATA3_N | LVDS_B / (LCD_B4 <sup>(4)</sup> ) | (GPIO3_IO19) | (IO) | (83)                  |                  |
| 74  |               |                                   |              |      |                       |                  |
| 75  | GND           |                                   |              |      |                       |                  |
| 76  |               |                                   |              |      |                       |                  |
| 77  |               |                                   |              |      |                       |                  |
| 78  | GND           |                                   |              |      |                       |                  |
| 79  |               |                                   |              |      |                       |                  |
| 80  |               |                                   |              |      |                       |                  |
| 81  | GND           |                                   |              |      |                       |                  |
| 82  |               |                                   |              |      |                       |                  |
| 83  |               |                                   |              |      |                       |                  |
| 84  | GND           |                                   |              |      |                       |                  |
| 85  |               |                                   |              |      |                       |                  |
| 86  |               |                                   |              |      |                       |                  |
| 87  | GND           |                                   |              |      |                       |                  |
| 88  |               |                                   |              |      |                       |                  |
| 89  |               |                                   |              |      |                       |                  |
| 90  | GND           |                                   |              |      |                       |                  |
| 91  |               |                                   |              |      |                       |                  |
| 92  |               |                                   |              |      |                       |                  |
| 93  | GND           |                                   |              |      |                       |                  |
| 94  |               |                                   |              |      |                       |                  |
| 95  |               |                                   |              |      |                       |                  |
| 96  | GND           |                                   |              |      |                       |                  |
| 97  |               |                                   |              |      |                       |                  |
| 98  |               |                                   |              |      |                       |                  |
| 99  | GND           |                                   |              |      |                       |                  |
| 100 |               |                                   |              |      |                       |                  |

(1) Onboard Pull-Up 2.49k

(2) Onboard Pull-Up 100k

(3) Only available if SD\_A\_WP, SD\_A\_CD and SD\_A\_RST not mounted, hardware option

(4) Only available if LVDS chip not mounted, hardware option

| J2 | Function                               | Device         | GPIO         | Mode | /sys/class/gpio/gpio# | PcoreBBDISI 1.30 |
|----|--|----------------|--------------|------|-----------------------|------------------|
| 1  | ETH_A_D1P / (ENET_MDC <sup>(3)</sup> ) | ETH_A / (GPIO) | (GPIO1_IO07) | (IO) | (7)                   |                  |
| 2  | AUDIO_A_VCC                            | AUDIO          |              |      |                       |                  |

| J2 | Function  | Device          | GPIO         | Mode | /sys/class/gpio/gpio# | PcoreBBDISI 1.30 |
|----|---|-----------------|--------------|------|-----------------------|------------------|
| 3  | ETH_A_D1N / (ENET_MDIO <sup>(3)</sup> )<br>( <sup>(3)</sup> ) | ETH_A / (GPIO)  | (GPIO1_IO06) | (IO) | (6)                   |                  |
| 4  | AUDIO_A_GND   | AUDIO           |              |      |                       |                  |
| 5  | ETH_A_D2P / (ENET1_TX_EN <sup>(3)</sup> )                     | ETH_A / (ENET1) | (GPIO2_IO05) | (IO) | (37)                  |                  |
| 6  | AUDIO_A_LOUT_L / (I2S_SCLK <sup>(5)</sup> )                   | AUDIO / (I2S)   | (GPIO1_IO13) | (IO) | (13)                  |                  |
| 7  | ETH_A_D2N   | ETH_A           |              |      |                       |                  |
| 8  | AUDIO_A_LOUT_R / (I2S_LRCLK <sup>(5)</sup> )                  | AUDIO / (I2S)   | (GPIO1_IO12) | (IO) | (12)                  |                  |
| 9  | ETH_A_D3P / (ENET1_TX_D0 <sup>(3)</sup> )                     | ETH_A / (ENET1) | (GPIO2_IO03) | (IO) | (35)                  |                  |
| 10 | AUDIO_A_MIC   | AUDIO           |              |      |                       | (J11-41)         |
| 11 | ETH_A_D3N / (ENET1_TX_D1 <sup>(3)</sup> )                     | ETH_A / (ENET1) | (GPIO2_IO04) | (IO) | (36)                  |                  |
| 12 | AUDIO_A_LIN_L / (I2S_MCLK <sup>(6)</sup> )                    | AUDIO / (I2S)   | (GPIO1_IO11) | (IO) | (11)                  |                  |
| 13 | ETH_A_D4P / (ENET1_TX_CLK <sup>(3)</sup> )                    | ETH_A / (ENET1) | (GPIO2_IO06) | (IO) | (38)                  |                  |
| 14 | AUDIO_A_LIN_R   | AUDIO           |              |      |                       | (J11-44)         |
| 15 | ETH_A_D4N   | ETH_A           |              |      |                       |                  |
| 16 | GND   |                 |              |      |                       |                  |
| 17 | ETH_A_LED / (BT_LED)  | ETH_A           |              |      |                       |                  |
| 18 | AUDIO_A_HP_L / (I2S_DOUT <sup>(6)</sup> )                     | AUDIO / (I2S)   | (GPIO1_IO15) | (IO) | (15)                  |                  |
| 19 | GND   |                 |              |      |                       |                  |
| 20 | AUDIO_A_HP_R / (I2S_DIN <sup>(6)</sup> )                      | AUDIO / (I2S)   | (GPIO1_IO14) | (IO) | (14)                  |                  |
| 21 | ETH_B_LED / (WLAN_LED)  | ETH_B           |              |      |                       |                  |
| 22 | AUDIO_A_HP_GND  | AUDIO           |              |      |                       |                  |
| 23 | ETH_B_D1P / (ENET1_RX_EN <sup>(3)</sup> )                     | ETH_B / (ENET1) | (GPIO2_IO02) | (IO) | (34)                  |                  |
| 24 | +V5S  |                 |              |      |                       |                  |
| 25 | ETH_B_D1N / (ENET1_RX_ER <sup>(3)</sup> )                     | ETH_B / (ENET1) | (GPIO2_IO07) | (IO) | (39)                  |                  |
| 26 | +V5S  |                 |              |      |                       |                  |
| 27 | ETH_B_D2P / (ENET1_RX_D0 <sup>(3)</sup> )                     | ETH_B / (ENET1) | (GPIO2_IO00) | (IO) | (32)                  |                  |
| 28 | +V5S  |                 |              |      |                       |                  |
| 29 | ETH_B_D2N / (ENET1_RX_D1 <sup>(3)</sup> )                     | ETH_B / (ENET1) | (GPIO2_IO01) | (IO) | (33)                  |                  |
| 30 | GND   |                 |              |      |                       |                  |
| 31 | ETH_B_D3P   | ETH_B           |              |      |                       |                  |
| 32 | GND   |                 |              |      |                       |                  |
| 33 | ETH_B_D3N   | ETH_B           |              |      |                       |                  |
| 34 | GND   |                 |              |      |                       |                  |

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# PicoCoreMX6UL100 GPIO Reference Card V1.1

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| J2 | Function                                   | Device         | GPIO         | Mode | /sys/class/gpio/gpio# | PcoreBBDISI 1.30 |
|----|--|----------------|--------------|------|-----------------------|------------------|
| 35 | ETH_B_D4P / (ETH_PHY_IRQ <sup>(3)</sup> )  | ETH_B / (GPIO) | (GPIO5_IO02) | (IO) | (130)                 |                  |
| 36 | VDD_VBAT                                   |                |              |      |                       |                  |
| 37 | ETH_B_D4N / (ETH1_PHY_RST <sup>(3)</sup> ) | ETH_B / (GPIO) | (GPIO5_IO00) | (IO) | (128)                 |                  |
| 38 | VDD_SNV5                                   | 3V3            |              |      |                       |                  |
| 39 | GND  |                |              |      |                       |                  |
| 40 | +V3.3S                                     |                |              |      |                       |                  |
| 41 | USB_HOST_VBUS                              | USBOTG2        |              |      |                       |                  |
| 42 | RESETIn                                    |                |              |      |                       |                  |
| 43 | USB_HOST_DN <sup>(4)</sup>                 | USBOTG2        |              |      |                       |                  |
| 44 | PMIC_STBY                                  |                |              |      |                       |                  |
| 45 | USB_HOST_DP <sup>(4)</sup>                 | USBOTG2        |              |      |                       |                  |
| 46 | PMIC_ON_REQ                                |                |              |      |                       |                  |
| 47 | USB_HOST_PWRn <sup>(1)</sup>               | GPIO           | GPIO5_IO08   | IO   | 136                   |                  |
| 48 | ON_OFF                                     |                |              |      |                       |                  |
| 49 | GND  |                |              |      |                       |                  |
| 50 | BOOTSELn                                   |                |              |      |                       |                  |
| 51 | USB_OTG_VBUS                               | USBOTG1        |              |      |                       |                  |
| 52 | SD_A_VCC                                   | 1V8/3V3        |              |      |                       |                  |
| 53 | USB_OTG_PWRn <sup>(1)</sup>                | GPIO           | GPIO5_IO09   | IO   | 137                   |                  |
| 54 |  |                |              |      |                       |                  |
| 55 | USB_OTG_ID                                 | USBOTG1        | GPIO1_IO00   | IO   | 0                     |                  |
| 56 | SD_A_RST                                   | GPIO           | GPIO4_IO27   | IO   | 123                   |                  |
| 57 | USB_OTG_DP                                 | USBOTG1        |              |      |                       |                  |
| 58 | SD_A_WP                                    | GPIO           | GPIO4_IO25   | IO   | 121                   |                  |
| 59 | USB_OTG_DN                                 | USBOTG1        |              |      |                       |                  |
| 60 | SD_A_CD                                    | GPIO           | GPIO4_IO26   | IO   | 122                   |                  |
| 61 | GND  |                |              |      |                       |                  |
| 62 | SD_A_CMD <sup>(1)</sup>                    | SD1            | GPIO2_IO16   | IO   | 48                    |                  |
| 63 | PWM  | PWM8           | GPIO4_IO20   | IO   | 116                   | J11-34           |
| 64 | SD_A_CLK                                   | SD1            | GPIO2_IO17   | IO   | 49                    |                  |
| 65 | GPIO_J2_65                                 | GPIO           | GPIO3_IO26   | IO   | 90                    | J11-10           |
| 66 | SD_A_DATA0 <sup>(1)</sup>                  | SD1            | GPIO2_IO18   | IO   | 50                    |                  |
| 67 | GPIO_J2_67                                 | GPIO           | GPIO3_IO25   | IO   | 89                    | J11-12           |
| 68 | SD_A_DATA1                                 | SD1            | GPIO2_IO19   | IO   | 51                    |                  |
| 69 | GPIO_J2_69 <sup>(3)</sup>                  | GPIO           | GPIO5_IO01   | IO   | 129                   | J11-14           |
| 70 | SD_A_DATA2                                 | SD1            | GPIO2_IO20   | IO   | 52                    |                  |
| 71 | GND  |                |              |      |                       |                  |
| 72 | SD_A_DATA3                                 | SD1            | GPIO2_IO21   | IO   | 53                    |                  |
| 73 | GPIO_J2_73 <sup>(3)</sup>                  | GPIO           | GPIO2_IO09   | IO   | 41                    | J11-7            |
| 74 |  |                |              |      |                       |                  |

| J2  | Function                  | Device | GPIO       | Mode | /sys/class/gpio/gpio# | PcoreBBDISI 1.30 |
|-----|---------------------------|--------|------------|------|-----------------------|------------------|
| 75  | GPIO_J2_75 <sup>(3)</sup> | GPIO   | GPIO2_IO08 | IO   | 40                    | J11-9            |
| 76  |                           |        |            |      |                       |                  |
| 77  | GPIO_J2_77 <sup>(3)</sup> | GPIO   | GPIO2_IO10 | IO   | 42                    |                  |
| 78  |                           |        |            |      |                       |                  |
| 79  | GPIO_J2_79 <sup>(3)</sup> | GPIO   | GPIO2_IO11 | IO   | 43                    |                  |
| 80  |                           |        |            |      |                       |                  |
| 81  | GND                       |        |            |      |                       |                  |
| 82  | GND                       |        |            |      |                       |                  |
| 83  | SPI_C_SS0 <sup>(3)</sup>  | ECSPI4 | GPIO2_IO15 | IO   | 47                    |                  |
| 84  |                           |        |            |      |                       |                  |
| 85  | SPI_C_MISO <sup>(3)</sup> | ECSPI4 | GPIO2_IO14 | IO   | 46                    |                  |
| 86  |                           |        |            |      |                       |                  |
| 87  | SPI_C_MOSI <sup>(3)</sup> | ECSPI4 | GPIO2_IO13 | IO   | 45                    |                  |
| 88  |                           |        |            |      |                       |                  |
| 89  | SPI_C_SCLK <sup>(3)</sup> | ECSPI4 | GPIO2_IO12 | IO   | 44                    |                  |
| 90  |                           |        |            |      |                       |                  |
| 91  | GND                       |        |            |      |                       |                  |
| 92  |                           |        |            |      |                       |                  |
| 93  | JTAG_TCK <sup>(6)</sup>   | JTAG   |            |      |                       |                  |
| 94  |                           |        |            |      |                       |                  |
| 95  | JTAG_TMS <sup>(6)</sup>   | JTAG   |            |      |                       |                  |
| 96  |                           |        |            |      |                       |                  |
| 97  | JTAG_TDI <sup>(6)</sup>   | JTAG   |            |      |                       |                  |
| 98  |                           |        |            |      |                       |                  |
| 99  | JTAG_TDO <sup>(6)</sup>   | JTAG   |            |      |                       |                  |
| 100 |                           |        |            |      |                       |                  |

- (1) Onboard Pull-Up 100k
- (2) Onboard Pull-Up 1.5k
- (3) Only available if PHYs not mounted
- (4) USB\_HOST\_DN / USB\_HOST\_DP will be interchanged in revision 1.10
- (5) Only available if Audio Codec is not mounted, hardware option
- (6) Only available if Audio is not mounted, hardware option

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