

PicoMODA9 GPIO Reference Card (V1.1)

Pin layout for Board Rev. 1.1x

| J1 | Function | Device | GPIO | /sys/class/gpio/gpio# | PicoITX SINTF | Old SINTF |
|----|--------------------|------------|--------------------------|-----------------------|---------------|--------------|
| 1 | SPL_CSn | SPI | GPIO5_IO17 | 145 | J10_16 | J5_6 |
| 2 | SPL_CLK | SPI | GPIO5_IO14 | 142 | J10_14 | J5_2 |
| 3 | SPL_MISO | SPI | GPIO5_IO16 | 144 | J10_12 | J5_4 |
| 4 | SPL_MOSI | SPI | GPIO5_IO15 | 143 | J10_10 | J5_3 |
| 5 | CANTX (TXD3) | CAN (UART) | GPIO4_IO10 GPIO4_IO08 | 106 104 | (J8_3/4) | (J2_12) |
| 6 | CANRX (RXD3) | CAN (UART) | GPIO4_IO11 GPIO4_IO09 | 107 105 | (J8_3/4) | (J2_11) |
| 7 | ETH_RX- | ETH | | | (J3_3/6) | (J2_1/2) |
| 8 | ETH_TX- | ETH | | | (J3_1/2) | (J2_7/8) |
| 9 | ETH_RX+ | ETH | | | (J3_3/6) | (J2_1/2) |
| 10 | ETH_TX+ | ETH | | | (J3_1/2) | (J2_7/8) |
| 11 | V33 | | | | | |
| 12 | V33 | | | | | |
| 13 | GND | | | | | |
| 14 | GND | | | | | |
| 15 | /PONRES | | | | J2_54/J10_17 | (J4_14/LED5) |
| 16 | VBAT | | | | J19_2 | J1_5 |
| 17 | TXD0 | UART | GPIO6_IO18 | 178 | J10_9 | (J2_5) |
| 18 | RXD0 | UART | GPIO6_IO17 | 177 | J10_11 | (J2_3) |
| 19 | RTS0 or TXD3 | UART | GPIO7_IO04 GPIO4_IO08 | 196 104 | J10_15 | (J2_4) |
| 20 | CTS0 or RXD3 | UART | GPIO7_IO05 GPIO4_IO09 | 197 105 | J10_13 | (J2_6) |
| 21 | TXD1 | UART | GPIO4_IO06 | 102 | (J4_5) | (J7_10) |
| 22 | RXD1 | UART | GPIO4_IO07 | 103 | (J4_3) | (J7_9) |
| 23 | TXD2 | UART | GPIO7_IO00 | 192 | (J6_5) | (J5_14) |
| 24 | RXD2 | UART | GPIO7_IO01 | 193 | (J6_3) | (J5_12) |
| 25 | USB_OTG_DN | USB DEVICE | | | (J14_2) | J8_2 |
| 26 | USB_H1_DN | USB HOST | | | (J10/11/12) | J9_2 |
| 27 | USB_OTG_DP | USB DEVICE | | | (J14_3) | J8_3 |
| 28 | USB_H1_DP | USB HOST | | | (J10/11/12) | J9_3 |
| 29 | GPIO5 | GPIO | GPIO2_IO17 | 49 | J2_70 | J5_9 |
| 30 | USB-PWR1 | USB HOST | GPIO1_IO05 | 5 | (J11/12) | (J9_1) |
| 31 | I2DAT | I2C | GPIO7_IO11 | 203 | J2_64/J10_4 | J5_10 |
| 32 | USBVBUS (USB_PWR2) | USB | GPIO1_IO08 | 8 | (J14_1) | (J8_1) |
| 33 | GPIO7 | GPIO | GPIO2_IO27 | 59 | J2_72 | J12_5 |

| J1 | Function | Device | GPIO | /sys/class/gpio/gpio# | PicoITX SINTF | Old SINTF |
|----|-----------------|--------------|--------------------------|-----------------------|---------------|-----------|
| 34 | I2SCL | I2C | GPIO1_IO03 | 3 | J2_66/J10_6 | J5_11 |
| 35 | BOOT_MODE0 | | | | J30_3 | J12_3 |
| 36 | GPIO8 | GPIO | GPIO2_IO28 | 60 | J2_74 | J12_1 |
| 37 | | | | | J10_17 | J12_9 |
| 38 | VLCDIN_5V | LCD | | | J30_4 | J12_7 |
| 39 | GND | | | | | |
| 40 | GND | | | | | |
| 41 | GPIO1 | GPIO | GPIO4_IO15 | 111 | J2_58 | J5_1 |
| 42 | GPIO0 | FSBUS | GPIO4_IO14 | 110 | J2_56 | (J4_13) |
| 43 | GPIO3 | GPIO | GPIO2_IO19 | 51 | J2_62 | J5_7 |
| 44 | GPIO2 | GPIO | GPIO2_IO20 | 52 | J2_60 | J5_5 |
| 45 | SLOT0_CLK | SD MMC | GPIO1_IO10 | 10 | J5_5 | J10_5 |
| 46 | GPIO4 | GPIO | GPIO2_IO18 | 50 | J2_68 | J5_8 |
| 47 | SLOT0_DATA0 | SD MMC | GPIO1_IO15 | 15 | J5_7 | J10_7 |
| 48 | SLOT0_CMD | SD MMC | GPIO1_IO11 | 11 | J5_2 | J10_2 |
| 49 | SLOT0_DATA2 | SD MMC | GPIO1_IO13 | 13 | J5_9 | J10_9 |
| 50 | SLOT0_DATA1 | SD MMC | GPIO1_IO14 | 14 | J5_8 | J10_8 |
| 51 | SLOT0_CDn | SD MMC | GPIO1_IO04 | 4 | J5_10 | J10_12 |
| 52 | SLOT0_DATA3 | SD MMC | GPIO1_IO12 | 12 | J5_1 | J10_1 |
| 53 | SLOT0_WP | SD MMC | GPIO1_IO02 | 2 | J5_11 | J10_11 |
| 54 | GPIO6 | SD-MMC | GPIO2_IO16 | 48 | | |
| 55 | LCD_DEN | LCD | GPIO2_IO12 | 44 | J2_1 | (J3_23) |
| 56 | LCD_ENA | LCD | GPIO2_IO13 | 45 | J2_3 | |
| 57 | VCFL_ON | LCD | GPIO2_IO08 | 40 | J2_5/(J28_1) | (J3_30) |
| 58 | VLCD_ON | LCD | GPIO2_IO11 | 43 | J2_7 | (J3_25) |
| 59 | GND | | | | | |
| 60 | LBKLT_CTRL | PWM | GPIO2_IO09 | 41 | J2_9/J28_2 | (J3_18) |
| 61 | LCD_G0 (YDATA0) | LCD (CAMERA) | GPIO4_IO27 GPIO5_IO30 | 123 158 | J2_49 | (J3_14) |
| 62 | GND | | | | | |
| 63 | LCD_B0 (YDATA1) | LCD (CAMERA) | GPIO4_IO21 GPIO5_IO31 | 117 159 | J2_41 | (J3_12) |
| 64 | LCD_G1 (TXP2) | LCD (HDMI) | GPIO4_IO28 | 124 | J2_13 | (J3_13) |
| 65 | LCD_B2 (YDATA2) | LCD (CAMERA) | GPIO4_IO23 GPIO6_IO00 | 119 160 | J2_39 | (J3_10) |
| 66 | LCD_B1 (TXN2) | LCD (HDMI) | GPIO4_IO22 | 118 | J2_15 | (J3_11) |

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| J1 | Function | Device | GPIO | /sys/class/gpio/gpio# | PicoITX SINTF | Old SINTF |
|----|----------------------|-----------------|--------------------------|-----------------------|---------------|------------|
| 67 | LCD_B4 (YDATA3) | LCD (CAMERA) | GPIO4_IO25 GPIO6_IO01 | 121 161 | J2_37 | (J3_16) |
| 68 | LCD_B3 (TXP1) | LCD (HDMI) | GPIO4_IO24 | 120 | J2_19 | (J3_9) |
| 69 | LCD_G2 (YDATA4) | LCD (CAMERA) | GPIO4_IO29 GPIO6_IO02 | 125 162 | J2_45 | (J3_7) |
| 70 | LCD_B5 (TXN1) | LCD (HDMI) | GPIO4_IO26 | 122 | J2_21 | (J3_15) |
| 71 | LCD_G4 (YDATA5) | LCD (CAMERA) | GPIO4_IO31 GPIO6_IO03 | 127 163 | J2_43 | (J3_5) |
| 72 | LCD_G3 (TXP0) | LCD (HDMI) | GPIO4_IO30 | 126 | J2_25 | (J3_6) |
| 73 | LCD_R0 (YDATA6) | LCD (CAMERA) | GPIO5_IO06 GPIO6_IO04 | 134 164 | J2_57 | (J3_3) |
| 74 | LCD_G5 (TXN0) | LCD (HDMI) | GPIO5_IO05 | 133 | J2_27 | (J3_4) |
| 75 | LCD_R2 (YDATA7) | LCD (CAMERA) | GPIO5_IO08 GPIO6_IO05 | 136 165 | J2_55 | (J3_31) |
| 76 | LCD_R1 (TXCP) | LCD (HDMI) | GPIO5_IO07 | 135 | J2_31 | (J3_2) |
| 77 | LCD_R4 (MCLK) | LCD (CAMERA) | GPIO5_IO10 GPIO6_IO15 | 138 175 | J2_53 | (J3_33) |
| 78 | LCD_R3 (TXCN) | LCD (HDMI) | GPIO5_IO09 | 137 | J2_33 | (J3_32) |
| 79 | LCD_HSYNC (HREF) | LCD (CAMERA) | GPIO4_IO18 GPIO5_IO19 | 114 147 | J2_67 | (J3_22) |
| 80 | LCD_R5 | LCD | GPIO5_IO11 | 139 | J2_51 | (J3_34) |
| 81 | LCD_DE | LCD | GPIO4_IO17 | 113 | J2_65 | (J3_21) |
| 82 | LCD_VSYNC (VSYNC) | LCD (CAMERA) | GPIO4_IO19 GPIO5_IO21 | 115 149 | J2_69 | (J3_20) |
| 83 | GND | | | | | |
| 84 | GND | | | | | |
| 85 | GND | | | | | |
| 86 | LCD_CLK (PCLK) | LCD CAMERA | GPIO4_IO16 GPIO5_IO18 | 112 114 | J2_61 | (J3_19) |
| 87 | GPIO9 | GPIO | GPIO2_IO29 | 61 | | (J3_25/26) |
| 88 | GPIO10 | | GPIO2_IO30 | 62 | | (J11_37) |
| 89 | WAITn | | GPIO5_IO00 | 128 | | (J11_42) |
| 90 | GPIO11 | | GPIO2_IO31 | 63 | | (J11_43) |
| 91 | CSn0 | | GPIO2_IO23 | 55 | | (J11_7) |
| 92 | CSn1 | | GPIO2_IO24 | 56 | | (J11_32) |

| J1 | Function | Device | GPIO | /sys/class/gpio/gpio# | PicoITX SINTF | Old SINTF |
|-----|----------|--------|------------|-----------------------|---------------|-----------------|
| 93 | GPIO12 | | GPIO3_IO11 | 75 | | (J11_44) |
| 94 | GPIO13 | | GPIO3_IO12 | 76 | | (J11_9) |
| 95 | GPIO14 | | GPIO3_IO13 | 78 | | (J11_36) |
| 96 | OEn | | GPIO2_IO25 | 57 | | (J11_34) |
| 97 | WEn | | GPIO2_IO26 | 58 | | (J4_10, J11_35) |
| 98 | GPIO15 | | GPIO3_IO14 | 79 | | (J11_41) |
| 99 | ADDR0 | | GPIO3_IO00 | 64 | | (J11_20) |
| 100 | ADDR1 | | GPIO3_IO01 | 65 | | (J11_19) |
| 101 | ADDR2 | | GPIO3_IO02 | 66 | | (J4_12, J11_18) |
| 102 | ADDR3 | | GPIO3_IO03 | 67 | | (J11_17) |
| 103 | ADDR4 | | GPIO3_IO04 | 68 | | (J11_16) |
| 104 | ADDR5 | | GPIO3_IO05 | 69 | | (J11_15) |
| 105 | ADDR6 | | GPIO3_IO06 | 70 | | (J11_14) |
| 106 | ADDR7 | | GPIO3_IO07 | 71 | | (J11_12) |
| 107 | ADDR8 | | GPIO3_IO00 | 72 | | (J11_11) |
| 108 | ADDR9 | | GPIO3_IO09 | 73 | | (J11_10) |
| 109 | ADDR10 | | GPIO3_IO10 | 74 | | (J11_8) |
| 110 | DATA0 | FSBUS | GPIO3_IO16 | 80 | | (J4_1, J11_21) |
| 111 | DATA1 | FSBUS | GPIO3_IO17 | 81 | | (J4_2, J11_22) |
| 112 | DATA2 | FSBUS | GPIO3_IO18 | 82 | | (J4_3, J11_23) |
| 113 | DATA3 | FSBUS | GPIO3_IO19 | 83 | | (J4_4, J11_2) |
| 114 | DATA4 | FSBUS | GPIO3_IO20 | 84 | | (J4_5, J11_3) |
| 115 | DATA5 | FSBUS | GPIO3_IO21 | 85 | | (J4_6, J11_4) |
| 116 | DATA6 | FSBUS | GPIO3_IO22 | 86 | | (J4_7, J11_5) |
| 117 | DATA7 | FSBUS | GPIO3_IO23 | 87 | | (J4_8, J11_6) |
| 118 | DATA8 | | GPIO3_IO24 | 88 | | (J11_47) |
| 119 | DATA9 | | GPIO3_IO25 | 89 | | (J11_48) |
| 120 | DATA10 | | GPIO3_IO26 | 90 | | (J11_49) |
| 121 | DATA11 | | GPIO3_IO27 | 91 | | (J11_27) |
| 122 | DATA12 | | GPIO3_IO28 | 92 | | (J11_28) |
| 123 | DATA13 | | GPIO3_IO29 | 93 | | (J11_29) |
| 124 | DATA14 | | GPIO3_IO30 | 94 | | (J11_30) |
| 125 | DATA15 | | GPIO3_IO31 | 95 | | (J11_31) |
| 126 | GPIO16 | | GPIO3_IO15 | 79 | | |
| 127 | CSn2 | FSBUS | GPIO5_IO12 | | | (J4_11) |
| 128 | LILEDJ | LED | | | (J3_10) | (LED2) |
| 129 | STA1 | LED | GPIO7_IO12 | 204 | (LED1) | (LED3) |

PicoMODA9 GPIO Reference Card (V1.1)

| J1 | Function | Device | GPIO | /sys/class/gpio/gpio# | PicoTX SINTF | Old SINTF |
|-----|----------------------|--------|--------------|-----------------------|--------------|-----------|
| 130 | STA2 | LED | GPIO7_IO13 | 205 | (LED2) | (LED4) |
| 131 | LOUT (AUD3_TXFS) | AUDIO | (GPIO5_IO24) | 152 | J7_9 | J7_1 |
| 132 | ROUT (AUD3_RXD) | AUDIO | (GPIO5_IO25) | 153 | J7_5 | J7_2 |
| 133 | LIN (GPIO_0_CLKO) | AUDIO | (GPIO7_IO13) | 205 | J7_10 | J7_4 |
| 134 | RIN (AUD3_TXC) | AUDIO | (GPIO5_IO22) | 150 | J7_6 | J7_5 |
| 135 | MICIN (AUD3_TXD) | AUDIO | (GPIO5_IO23) | 151 | J7_1 | J7_7 |
| 136 | MICBIAS | AUDIO | | | J7_3 | J7_8 |
| 137 | X+ | TOUCH | | | J2_73/J31_1 | J7_15 |
| 138 | X- | TOUCH | | | J2_77/J31_3 | J7_17 |
| 139 | Y+ | TOUCH | | | J2_75/J31_2 | J7_16 |
| 140 | Y- | TOUCH | | | J2_79/J31_4 | J7_18 |

PicoMODA9 GPIO Reference Card (V1.1)

Pin layout for Board Rev. 1.0x

| J1 | Function | Device | GPIO | /sys/class/gpio/gpio# | PicoITX SINTF | Old SINTF |
|----|--------------------|------------|--------------------------|-----------------------|---------------|--------------|
| 1 | SPL_CSn | SPI | GPIO5_IO17 | 145 | J10_16 | J5_6 |
| 2 | SPL_CLK | SPI | GPIO5_IO14 | 142 | J10_14 | J5_2 |
| 3 | SPL_MISO | SPI | GPIO5_IO16 | 144 | J10_12 | J5_4 |
| 4 | SPL_MOSI | SPI | GPIO5_IO15 | 143 | J10_10 | J5_3 |
| 5 | CANTX (TXD3) | CAN (UART) | GPIO4_IO10 GPIO4_IO08 | 106 104 | (J8_3/4) | (J2_12) |
| 6 | CANRX (RXD3) | CAN (UART) | GPIO4_IO11 GPIO4_IO09 | 107 105 | (J8_3/4) | (J2_11) |
| 7 | ETH_RX- | ETH | | | (J3_3/6) | (J2_1/2) |
| 8 | ETH_TX- | ETH | | | (J3_1/2) | (J2_7/8) |
| 9 | ETH_RX+ | ETH | | | (J3_3/6) | (J2_1/2) |
| 10 | ETH_TX+ | ETH | | | (J3_1/2) | (J2_7/8) |
| 11 | V33 | | | | | |
| 12 | V33 | | | | | |
| 13 | GND | | | | | |
| 14 | GND | | | | | |
| 15 | /PONRES | | | | J2_54/J10_17 | (J4_14/LED5) |
| 16 | VBAT | | | | J19_2 | J1_5 |
| 17 | TXD0 | UART | GPIO6_IO18 | 178 | J10_9 | (J2_5) |
| 18 | RXD0 | UART | GPIO6_IO17 | 177 | J10_11 | (J2_3) |
| 19 | RTS0 or TXD3 | UART | GPIO7_IO04 GPIO4_IO08 | 196 104 | J10_15 | (J2_4) |
| 20 | CTS0 or RXD3 | UART | GPIO7_IO05 GPIO4_IO09 | 197 105 | J10_13 | (J2_6) |
| 21 | TXD1 | UART | GPIO4_IO06 | 102 | (J4_5) | (J7_10) |
| 22 | RXD1 | UART | GPIO4_IO07 | 103 | (J4_3) | (J7_9) |
| 23 | TXD2 | UART | GPIO7_IO00 | 192 | (J6_5) | (J5_14) |
| 24 | RXD2 | UART | GPIO7_IO01 | 193 | (J6_3) | (J5_12) |
| 25 | USB_OTG_DN | USB DEVICE | | | (J14_2) | J8_2 |
| 26 | USB_H1_DN | USB HOST | | | (J10/11/12) | J9_2 |
| 27 | USB_OTG_DP | USB DEVICE | | | (J14_3) | J8_3 |
| 28 | USB_H1_DP | USB HOST | | | (J10/11/12) | J9_3 |
| 29 | GPIO5 | GPIO | GPIO2_IO17 | 49 | J2_70 | J5_9 |
| 30 | USB-PWR1 | USB HOST | GPIO7_IO12 | 204 | (J11/12) | (J9_1) |
| 31 | I2DAT | I2C | GPIO7_IO11 | 203 | J2_64/J10_4 | J5_10 |
| 32 | USBVBUS (USB_PWR2) | USB | GPIO1_IO08 | 8 | (J14_1) | (J8_1) |
| 33 | GPIO7 | GPIO | GPIO2_IO27 | 59 | J2_72 | J12_5 |

| J1 | Function | Device | GPIO | /sys/class/gpio/gpio# | PicoITX SINTF | Old SINTF |
|----|-----------------|--------------|--------------------------|-----------------------|---------------|-----------|
| 34 | I2SCL | I2C | GPIO1_IO03 | 3 | J2_66/J10_6 | J5_11 |
| 35 | BOOT_MODE0 | | | | J30_3 | J12_3 |
| 36 | GPIO8 | GPIO | GPIO2_IO28 | 60 | J2_74 | J12_1 |
| 37 | | | | | J10_17 | J12_9 |
| 38 | BOOT_MODE1 | | | | J30_4 | J12_7 |
| 39 | GND | | | | | |
| 40 | GND | | | | | |
| 41 | GPIO1 | GPIO | GPIO2_IO21 | 53 | J2_58 | J5_1 |
| 42 | GPIO0 | FSBUS | GPIO2_IO22 | 54 | J2_56 | (J4_13) |
| 43 | GPIO3 | GPIO | GPIO2_IO19 | 51 | J2_62 | J5_7 |
| 44 | GPIO2 | GPIO | GPIO2_IO20 | 52 | J2_60 | J5_5 |
| 45 | SLOT0_CLK | SD MMC | GPIO1_IO10 | 10 | J5_5 | J10_5 |
| 46 | GPIO4 | GPIO | GPIO2_IO18 | 50 | J2_68 | J5_8 |
| 47 | SLOT0_DATA0 | SD MMC | GPIO1_IO15 | 15 | J5_7 | J10_7 |
| 48 | SLOT0_CMD | SD MMC | GPIO1_IO11 | 11 | J5_2 | J10_2 |
| 49 | SLOT0_DATA2 | SD MMC | GPIO1_IO13 | 13 | J5_9 | J10_9 |
| 50 | SLOT0_DATA1 | SD MMC | GPIO1_IO14 | 14 | J5_8 | J10_8 |
| 51 | SLOT0_CDn | SD MMC | GPIO1_IO04 | 4 | J5_10 | J10_12 |
| 52 | SLOT0_DATA3 | SD MMC | GPIO1_IO12 | 12 | J5_1 | J10_1 |
| 53 | SLOT0_WP | SD MMC | GPIO1_IO02 | 2 | J5_11 | J10_11 |
| 54 | GPIO6 | SD-MMC | GPIO2_IO16 | 48 | | |
| 55 | LCD_DEN | LCD | GPIO2_IO12 | 44 | J2_1 | (J3_23) |
| 56 | LCD_ENA | LCD | GPIO2_IO13 | 45 | J2_3 | |
| 57 | VCFL_ON | LCD | GPIO2_IO08 | 40 | J2_5/(J28_1) | (J3_30) |
| 58 | VLCD_ON | LCD | GPIO2_IO11 | 43 | J2_7 | (J3_25) |
| 59 | GND | | | | | |
| 60 | LBKLT_CTRL | PWM | GPIO2_IO09 | 41 | J2_9/J28_2 | (J3_18) |
| 61 | LCD_G0 (YDATA0) | LCD (CAMERA) | GPIO4_IO27 GPIO5_IO30 | 123 158 | J2_49 | (J3_14) |
| 62 | GND | | | | | |
| 63 | LCD_B0 (YDATA1) | LCD (CAMERA) | GPIO4_IO21 GPIO5_IO31 | 117 159 | J2_41 | (J3_12) |
| 64 | LCD_G1 (TXP2) | LCD (HDMI) | GPIO4_IO28 | 124 | J2_13 | (J3_13) |
| 65 | LCD_B2 (YDATA2) | LCD (CAMERA) | GPIO4_IO23 GPIO6_IO00 | 119 160 | J2_39 | (J3_10) |
| 66 | LCD_B1 (TXN2) | LCD (HDMI) | GPIO4_IO22 | 118 | J2_15 | (J3_11) |

PicoMODA9 GPIO Reference Card (V1.1)

| J1 | Function | Device | GPIO | /sys/class/gpio/gpio# | PicoITX SINTF | Old SINTF |
|----|----------------------|-----------------|--------------------------|-----------------------|---------------|------------|
| 67 | LCD_B4 (YDATA3) | LCD (CAMERA) | GPIO4_IO25 GPIO6_IO01 | 121 161 | J2_37 | (J3_16) |
| 68 | LCD_B3 (TXP1) | LCD (HDMI) | GPIO4_IO24 | 120 | J2_19 | (J3_9) |
| 69 | LCD_G2 (YDATA4) | LCD (CAMERA) | GPIO4_IO29 GPIO6_IO02 | 125 162 | J2_45 | (J3_7) |
| 70 | LCD_B5 (TXN1) | LCD (HDMI) | GPIO4_IO26 | 122 | J2_21 | (J3_15) |
| 71 | LCD_G4 (YDATA5) | LCD (CAMERA) | GPIO4_IO31 GPIO6_IO03 | 127 163 | J2_43 | (J3_5) |
| 72 | LCD_G3 (TXP0) | LCD (HDMI) | GPIO4_IO30 | 126 | J2_25 | (J3_6) |
| 73 | LCD_R0 (YDATA6) | LCD (CAMERA) | GPIO5_IO06 GPIO6_IO04 | 134 164 | J2_57 | (J3_3) |
| 74 | LCD_G5 (TXN0) | LCD (HDMI) | GPIO5_IO05 | 133 | J2_27 | (J3_4) |
| 75 | LCD_R2 (YDATA7) | LCD (CAMERA) | GPIO5_IO08 GPIO6_IO05 | 136 165 | J2_55 | (J3_31) |
| 76 | LCD_R1 (TXCP) | LCD (HDMI) | GPIO5_IO07 | 135 | J2_31 | (J3_2) |
| 77 | LCD_R4 (MCLK) | LCD (CAMERA) | GPIO5_IO10 GPIO1_IO00 | 138 0 | J2_53 | (J3_33) |
| 78 | LCD_R3 (TXCN) | LCD (HDMI) | GPIO5_IO09 | 137 | J2_33 | (J3_32) |
| 79 | LCD_HSYNC (HREF) | LCD (CAMERA) | GPIO4_IO18 GPIO5_IO19 | 114 147 | J2_67 | (J3_22) |
| 80 | LCD_R5 | LCD | GPIO5_IO11 | 139 | J2_51 | (J3_34) |
| 81 | LCD_DE | LCD | GPIO4_IO17 | 113 | J2_65 | (J3_21) |
| 82 | LCD_VSYNC (VSYNC) | LCD (CAMERA) | GPIO4_IO19 GPIO5_IO21 | 115 149 | J2_69 | (J3_20) |
| 83 | GND | | | | | |
| 84 | GND | | | | | |
| 85 | GND | | | | | |
| 86 | LCD_CLK (PCLK) | LCD CAMERA | GPIO4_IO16 GPIO5_IO18 | 112 114 | J2_61 | (J3_19) |
| 87 | GPIO9 | GPIO | GPIO2_IO29 | 61 | | (J3_25/26) |
| 88 | GPIO10 | | GPIO2_IO30 | 62 | | (J11_37) |
| 89 | WAITn | | GPIO5_IO00 | 128 | | (J11_42) |
| 90 | GPIO11 | | GPIO2_IO31 | 63 | | (J11_43) |
| 91 | CSn0 | | GPIO2_IO23 | 55 | | (J11_7) |
| 92 | CSn1 | | GPIO2_IO24 | 56 | | (J11_32) |

| J1 | Function | Device | GPIO | /sys/class/gpio/gpio# | PicoITX SINTF | Old SINTF |
|-----|----------|--------|------------|-----------------------|---------------|-----------------|
| 93 | GPIO12 | | GPIO3_IO11 | 75 | | (J11_44) |
| 94 | GPIO13 | | GPIO3_IO12 | 76 | | (J11_9) |
| 95 | GPIO14 | | GPIO3_IO13 | 78 | | (J11_36) |
| 96 | OEn | | GPIO2_IO25 | 57 | | (J11_34) |
| 97 | WEn | | GPIO2_IO26 | 58 | | (J4_10, J11_35) |
| 98 | GPIO15 | | GPIO3_IO14 | 79 | | (J11_41) |
| 99 | ADDR0 | | GPIO3_IO00 | 64 | | (J11_20) |
| 100 | ADDR1 | | GPIO3_IO01 | 65 | | (J11_19) |
| 101 | ADDR2 | | GPIO3_IO02 | 66 | | (J4_12, J11_18) |
| 102 | ADDR3 | | GPIO3_IO03 | 67 | | (J11_17) |
| 103 | ADDR4 | | GPIO3_IO04 | 68 | | (J11_16) |
| 104 | ADDR5 | | GPIO3_IO05 | 69 | | (J11_15) |
| 105 | ADDR6 | | GPIO3_IO06 | 70 | | (J11_14) |
| 106 | ADDR7 | | GPIO3_IO07 | 71 | | (J11_12) |
| 107 | ADDR8 | | GPIO3_IO00 | 72 | | (J11_11) |
| 108 | ADDR9 | | GPIO3_IO09 | 73 | | (J11_10) |
| 109 | ADDR10 | | GPIO3_IO10 | 74 | | (J11_8) |
| 110 | DATA0 | FSBUS | GPIO3_IO16 | 80 | | (J4_1, J11_21) |
| 111 | DATA1 | FSBUS | GPIO3_IO17 | 81 | | (J4_2, J11_22) |
| 112 | DATA2 | FSBUS | GPIO3_IO18 | 82 | | (J4_3, J11_23) |
| 113 | DATA3 | FSBUS | GPIO3_IO19 | 83 | | (J4_4, J11_2) |
| 114 | DATA4 | FSBUS | GPIO3_IO20 | 84 | | (J4_5, J11_3) |
| 115 | DATA5 | FSBUS | GPIO3_IO21 | 85 | | (J4_6, J11_4) |
| 116 | DATA6 | FSBUS | GPIO3_IO22 | 86 | | (J4_7, J11_5) |
| 117 | DATA7 | FSBUS | GPIO3_IO23 | 87 | | (J4_8, J11_6) |
| 118 | DATA8 | | GPIO3_IO24 | 88 | | (J11_47) |
| 119 | DATA9 | | GPIO3_IO25 | 89 | | (J11_48) |
| 120 | DATA10 | | GPIO3_IO26 | 90 | | (J11_49) |
| 121 | DATA11 | | GPIO3_IO27 | 91 | | (J11_27) |
| 122 | DATA12 | | GPIO3_IO28 | 92 | | (J11_28) |
| 123 | DATA13 | | GPIO3_IO29 | 93 | | (J11_29) |
| 124 | DATA14 | | GPIO3_IO30 | 94 | | (J11_30) |
| 125 | DATA15 | | GPIO3_IO31 | 95 | | (J11_31) |
| 126 | GPIO16 | | GPIO3_IO15 | 79 | | |
| 127 | CSn2 | FSBUS | GPIO5_IO12 | | | (J4_11) |
| 128 | LILEDJ | LED | | | (J3_10) | (LED2) |
| 129 | STA1 | LED | GPIO5_IO04 | 132 | (LED1) | (LED3) |

PicoMODA9 GPIO Reference Card (V1.1)

| J1 | Function | Device | GPIO | /sys/class/gpio/gpio# | PicoTX SINTF | Old SINTF |
|-----|----------------------|--------|--------------|-----------------------|--------------|-----------|
| 130 | STA2 | LED | GPIO5_IO02 | 130 | (LED2) | (LED4) |
| 131 | LOUT (AUD3_TXFS) | AUDIO | (GPIO5_IO24) | 152 | J7_9 | J7_1 |
| 132 | ROUT (AUD3_RXD) | AUDIO | (GPIO5_IO25) | 153 | J7_5 | J7_2 |
| 133 | LIN (GPIO_0_CLKO) | AUDIO | (GPIO7_IO13) | 205 | J7_10 | J7_4 |
| 134 | RIN (AUD3_TXC) | AUDIO | (GPIO5_IO22) | 150 | J7_6 | J7_5 |
| 135 | MICIN (AUD3_TXD) | AUDIO | (GPIO5_IO23) | 151 | J7_1 | J7_7 |
| 136 | MICBIAS | AUDIO | | | J7_3 | J7_8 |
| 137 | X+ | TOUCH | | | J2_73/J31_1 | J7_15 |
| 138 | X- | TOUCH | | | J2_77/J31_3 | J7_17 |
| 139 | Y+ | TOUCH | | | J2_75/J31_2 | J7_16 |
| 140 | Y- | TOUCH | | | J2_79/J31_4 | J7_18 |