

| | | | | | | | | | | | | | |
|--|-------------|--|-------------------------------|--------|-----------------------------------|--------|--|----------------------------|-------------------------------|--|--------------------------|--|--|
| | | | 35 GND | | | | | | | | | | |
| Pinko | | | Samosa | | Aux parallel I/O | | | LCD and touchscreen | | | Aux power and OTG | | |
| J13 (top) | | | J6 (top) | | J7 (bottom) | | | J8 (bottom) | | | J4 (top) | | |
| As TCL design on Pikey 2, plus USB and power | | | | | Pattern of VDD/GND as samosa | | | | 35-way 0.5mm FFC, top contact | | | | |
| 30-way 0.5mm FFC, top contact | | | 35-way 0.5mm FFC, top contact | | 35-way 0.5mm FFC, top contact | | | eg Farnell 309-1533 | | | 8-way 0.8mm pitch | | |
| eg Farnell 307-8346 | | | eg Farnell 309-1533 | | Bottom of board, not fitted on E1 | | | on bottom of board | | | | | |
| 1 GND | | | 1 GND | | 1 GND | | | 1 GND | | | 1 VDD_BACKUP | | |
| 2 PINKO_UNUSP | GPIO1 | | 2 SAMOSA_CLE | Xilinx | 2 BP_D3 | Xilinx | | 2 LCD_PCLK_OUT | Xilinx | | 2 USB_OTG_PWR | | |
| 3 NRES_BUTTON | | | 3 SAMOSA_ALE | Xilinx | 3 BP_D11 | Xilinx | | 3 LCD_LCLK_A0 | GPIO75 | | 3 USB_OTG_ | | |
| 4 PINKO_TXD | Xilinx | | 4 SAMOSA_NWE | Xilinx | 4 BP_D4 | Xilinx | | 4 LCD_FCLK_RD | GPIO74 | | 4 USB_OTG_+ | | |
| 5 PINKO_RXD | Xilinx | | 5 SAMOSA_NWP | Xilinx | 5 BP_D12 | Xilinx | | 5 LCD_BIAS | GPIO77 | | 5 USB_OTG_ID | | |
| 6 PINKO_CTS | Xilinx | | 6 SAMOSA_NRE | Xilinx | 6 BP_D5 | Xilinx | | 6 LCD_CS | GPIO19 | | 6 USB_HOST_PWR | | |
| 7 GND | | | 7 VDD_SAMOSA | | 7 VDD_SAMOSA | | | 7 LCD_VSYNC | GPIO14 | | 7 VDD_USB | | |
| 8 COM2/FFTXD | GPIO16 | | 8 SAMOSA_NCE | Xilinx | 8 BP_D13 | Xilinx | | 8 VDD_PANEL | | | 8 GND | | |
| 9 COM2/FFRXD | GPIO96 | | 9 SAMOSA_RNB | Xilinx | 9 BP_D6 | Xilinx | | 9 LCD_D0 | GPIO58 | | | | |
| 10 COM3/STD_TXD_232 | GPIO47 | | 10 SAMOSA_WP | Xilinx | 10 BP_D14 | Xilinx | | 10 LCD_D1 | GPIO59 | | | | |
| 11 COM3/STD_RXD_232 | GPIO46 | | 11 SAMOSA_ABSENT | Xilinx | 11 BP_D7 | Xilinx | | 11 LCD_D2 | GPIO60 | | | | |
| 12 GND | | | 12 SAMOSA_INTERRUPT | Xilinx | 12 BP_D15 | Xilinx | | 12 LCD_D3 | GPIO61 | | | | |
| 13 AUDIO_OUT_L | | | 13 SAMOSA_RESET | | 13 BP_A10 | | | 13 LCD_D4 | GPIO62 | | | | |
| 14 AUDIO_OUT_R | | | 14 GND | | 14 GND | | | 14 LCD_D5 | GPIO63 | | | | |
| 15 GND | | | 15 SAMOSA_D0 | Xilinx | 15 BP_A9 | Xilinx | | 15 LCD_D6 | GPIO64 | | | | |
| 16 no connection - was VDD_BACKLIGHT | | | 16 SAMOSA_D1 | Xilinx | 16 BP_A8 | Xilinx | | 16 LCD_D7 | GPIO65 | | | | |
| 17 GND | | | 17 SAMOSA_D2 | Xilinx | 17 BP_A7 | Xilinx | | 17 GND | | | | | |
| 18 VDD_BACKUP | | | 18 SAMOSA_D3 | Xilinx | 18 BP_A6 | Xilinx | | 18 LCD_D8 | GPIO66 | | | | |
| 19 AUDIO_IN_L | should be r | | 19 VDD_SAMOSA | | 19 VDD_SAMOSA | | | 19 LCD_D9 | GPIO67 | | | | |
| 20 GND | | | 20 SAMOSA_D4 | Xilinx | 20 BP_A5 | Xilinx | | 20 LCD_D10 | GPIO68 | | | | |
| 21 GND | | | 21 SAMOSA_D5 | Xilinx | 21 BP_A4 | Xilinx | | 21 LCD_D11 | GPIO69 | | | | |
| 22 USB_OTG_UDC+/USB_HOST_UDC_2+ | | | 22 SAMOSA_D6 | Xilinx | 22 BP_A3 | Xilinx | | 22 LCD_D12 | GPIO70 | | | | |
| 23 USB_OTG_UDC-/USB_HOST_UDC_2- | | | 23 SAMOSA_D7 | Xilinx | 23 BP_A2 | Xilinx | | 23 LCD_D13 | GPIO71 | | | | |
| 24 USB_OTG_VBUS/USB_HOST_PWR_2 | | | 24 GND | | 24 GND | | | 24 LCD_D14 | GPIO72 | | | | |
| 25 USB_OTG_ID | | | 25 SAMOSA_D8 | Xilinx | 25 BP_A1 | Xilinx | | 25 LCD_D15 | GPIO73 | | | | |
| 26 GND | | | 26 SAMOSA_D9 | Xilinx | 26 BP_A0 | Xilinx | | 26 LCD_D16 | GPIO86 | | | | |
| 27 GND | | | 27 SAMOSA_D10 | Xilinx | 27 BP_D0 | Xilinx | | 27 LCD_D17 | GPIO87 | | | | |
| 28 VDD_RAW | | | 28 SAMOSA_D11 | Xilinx | 28 BP_D1 | Xilinx | | 28 RUN_BACKLIGHT | GPIO99 | | | | |
| 29 VDD_RAW | | | 29 VDD_SAMOSA | | 29 VDD_SAMOSA | | | 29 SCL | GPIO117 | | | | |
| 30 VDD_RAW | | | 30 SAMOSA_D12 | Xilinx | 30 BP_D8 | Xilinx | | 30 SDA | GPIO118 | | | | |
| | | | 31 SAMOSA_D13 | Xilinx | 31 BP_D2 | Xilinx | | 31 GND | | | | | |
| | | | 32 SAMOSA_D14 | Xilinx | 32 BP_D9 | Xilinx | | 32 TSPX | | | | | |
| | | | 33 SAMOSA_D15 | Xilinx | 33 BP_D10 | Xilinx | | 33 TSMX | | | | | |
| | | | 34 GND | | 34 GND | | | 34 TSPY | | | | | |
| | | | 35 VDD_SAMOSA | | 35 VDD_SAMOSA | | | 35 TSMY | | | | | |