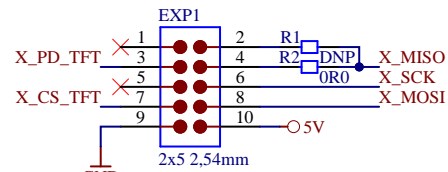


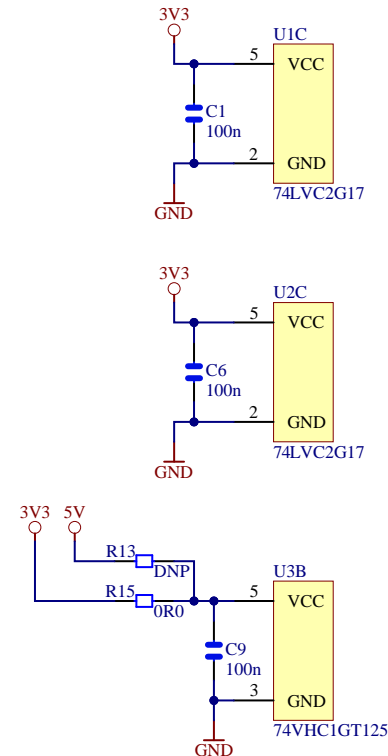
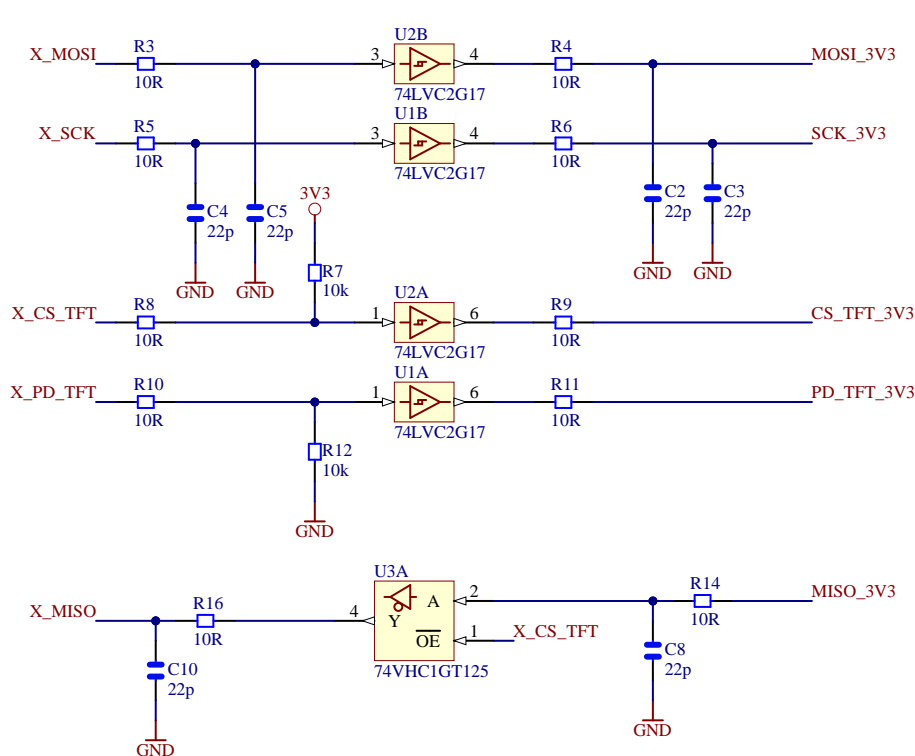
Connector to Printer



For the stock CR-10/Ender-3 board, remove R2 and populate R1

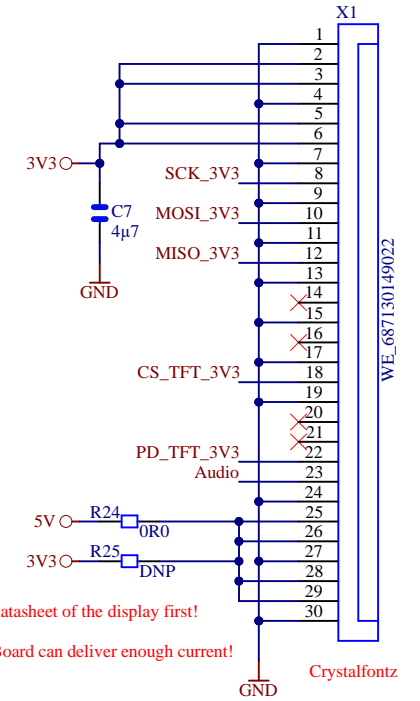
Note: many boards have the pins in the wrong order with a false numeration.
For example the CR-10/Ender-3/SKR mini E3 boards show VCC on pin 1 and GND on pin 2 while the connector is populated rotated by 180° and therefore actually having VCC on pin 10 and GND on pin 9. Others like the Fysetc Cheetah use the correct numeration and while on a quick glance it appears that they use a different pinout for the EXP1 header than the stock Ender-3 board it really is the same.
And others like the MKS Robin E3 have the connector rotated while keeping the correct numeration.

Level-Shifter 5V or 3,3V I/O from printer-controller to 3,3V I/O for the display

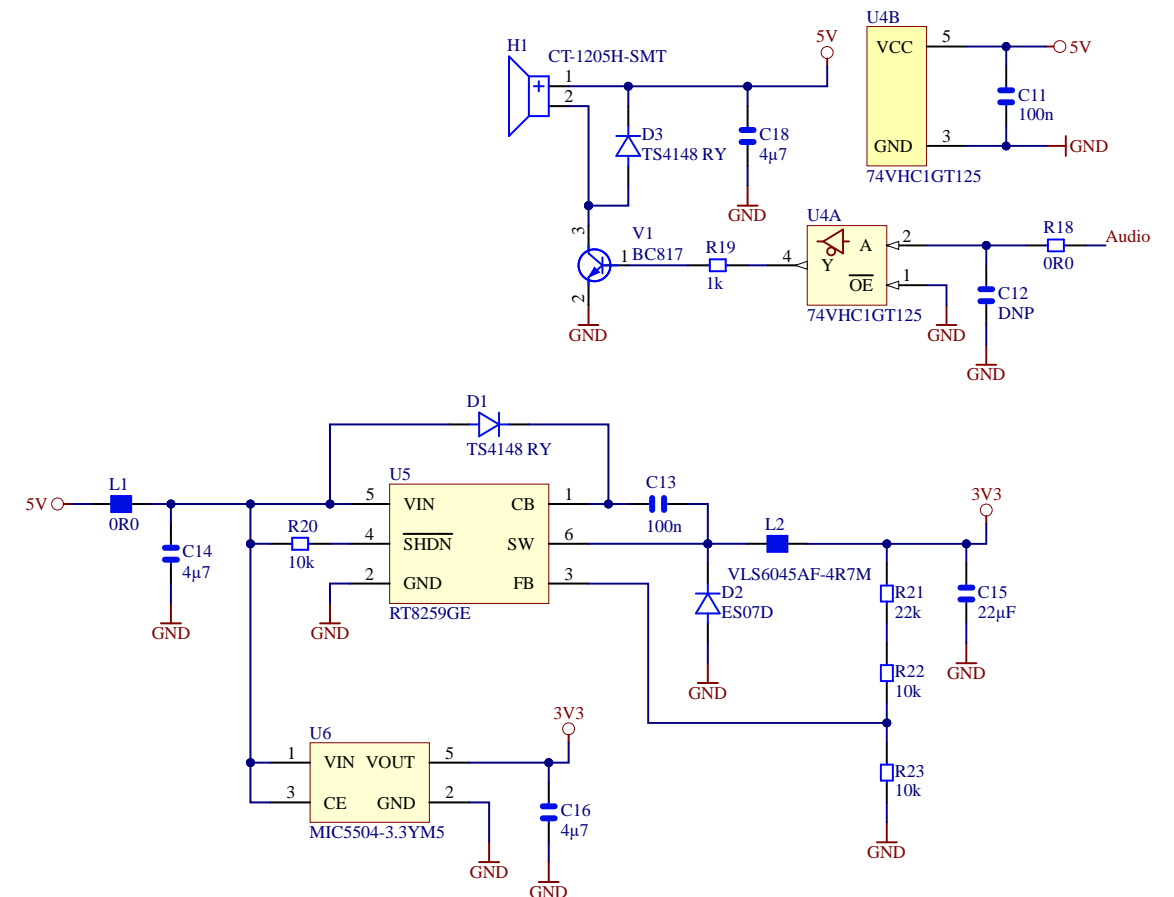


Display-Connector

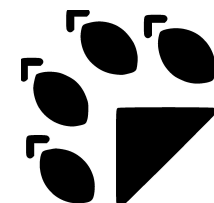
not mirrored
-> for use with FCC cable with connections on opposite sides



| | | | | | | | | | |
|--------------------------------|--------------------------------|-----------------------------|------------------|----------------|------------------|-----------------------------|--------------------------------|--------------------|------------------|
| Rumba32 | ARMED | Cheetah | Fysetc GLCD | Reprap GLCD | EXP1 | Fysetc GLCD | Cheetah | ARMED | Rumba32 |
| PE8 | PC9 | PC9 | Beeper | 1 | 2 | BTN_ENC | PC12 | PC3 | PE7 |
| PE9 | PE8 | PC11 | LCDE | 3 | 4 | LCD_RS | PB14 (SPI2_MISO) | PE9 | PE10 |
| PE12 (SPI4_SCK) | PB12 (SPI2_SS) | PC10 | LCDE | 5 | 6 | LCD5 | PB13 (SPI2_SCK) | PB13 (SPI2_SCK) | PE13 (SPI4_MISO) |
| PE14 (SPI4_MOSI) | PB14 (SPI2_MISO) | PB12 (SPI2_SS) | LCD6 | 7 | 8 | LCD7 | PB15 (SPI2_MOSI) | PB15 (SPI2_MOSI) | PE15 |
| GND | GND | GND | GND | 9 | 10 | 5V | 5V | 5V | 5V |
| Bigtreetech SKR E3 DIP | Bigtreetech SKR mini E3 | Creatility CR-10/Ender-3 | Reprap GLCD | EXP1 | Reprap GLCD | Creatility CR-10/Ender-3 | Bigtreetech SKR mini E3 V1 | Bigtreetech SKR | REMRAM |
| PA15 | PB5 (SPI3.MOSI) | PA4 | Beeper | 1 | 2 | BTN_ENC | PC0 | P0.28 | PC7 |
| TX1 | PA9 | PD3 (USART1_MOSI) | LCDE | 3 | 4 | LCD_RS | RESET | P1.19 | PD15 |
| PA9 | PA10 | PD2 (USART1_MISO) | LCDE | 5 | 6 | LCD5 | PA1 | P1.21 (SSEL0) | PD12 |
| PB8 | PB8 | PA3 | LCD6 | 7 | 8 | LCD7 | PC1 | P1.23 (MISO0) | PD10 |
| GND | GND | GND | GND | 9 | 10 | 5V | 5V | 5V | 5V |
| MKS Robin E3 Robin Lite3 | MKS Robin E3 Robin Lite3 | Ultimachine Archim2.2b | Fysetc S6 | EXP1 | Fysetc S6 | Ultimachine Archim2.2b | MKS Robin E3 Robin Lite3 | | |
| PC1 | PA14 | PC9 | 10 | 9 | PA8 | PA13 (USART1_MOSI) | PC3 | | |
| PA4 (SPI1_SS) | PA15 | PC11 (SPI3.MISO) | 8 | 7 | PD2 | PA12 (USART1_MISO) | PA5 (SPI1_SCK) | | |
| PA6 (SPI1_MISO) | PA0 | PC10 (SPI3_SCK) | 6 | 5 | PC12 (SPI3_MOSI) | PA16 (USART1_SCK) | PA7 (SPI1_MOSI) | | |
| PC4 | PA1 | PD0 | 4 | 3 | PD1 | PC2 | PC5 | | |
| GND | GND | GND | 2 | 1 | 5V | 5V | 5V | | |
| MKS SBASE V1.3 | Bigtreetech SKR PRO | Einsy Rambo | Fysetc F6 | EXP1 | Fysetc F6 | Einsy Rambo | Bigtreetech SKR PRO | MKS SBASE V1.3 | |
| P1.31 (SCK) | PG4 | PH2 (UART2_SCK) | PC0 | 10 | 9 | PC2 | PA8 | P1.30 | |
| P0.18 (MOSI) | PD11 | PF7 | PH0 (UART2_MISO) | 8 | 7 | PH1 (UART2_MOSI) | PD10 | P0.16 (SSEL) | |
| P0.15 (SCK) | PG2 | PF5 | PA1 | 6 | 5 | PA3 | PG3 | NC | |
| NC | PG6 | PH7 | PA5 | 4 | 3 | PA7 | PG7 | NC | |
| GND | GND | GND | GND | 2 | 1 | 5V | 5V | 5V | |



Project: EVE Display-Adapter
Revision: 3 Crystalfontz
Date: 31.12.2021
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05019-05-03

MTG1

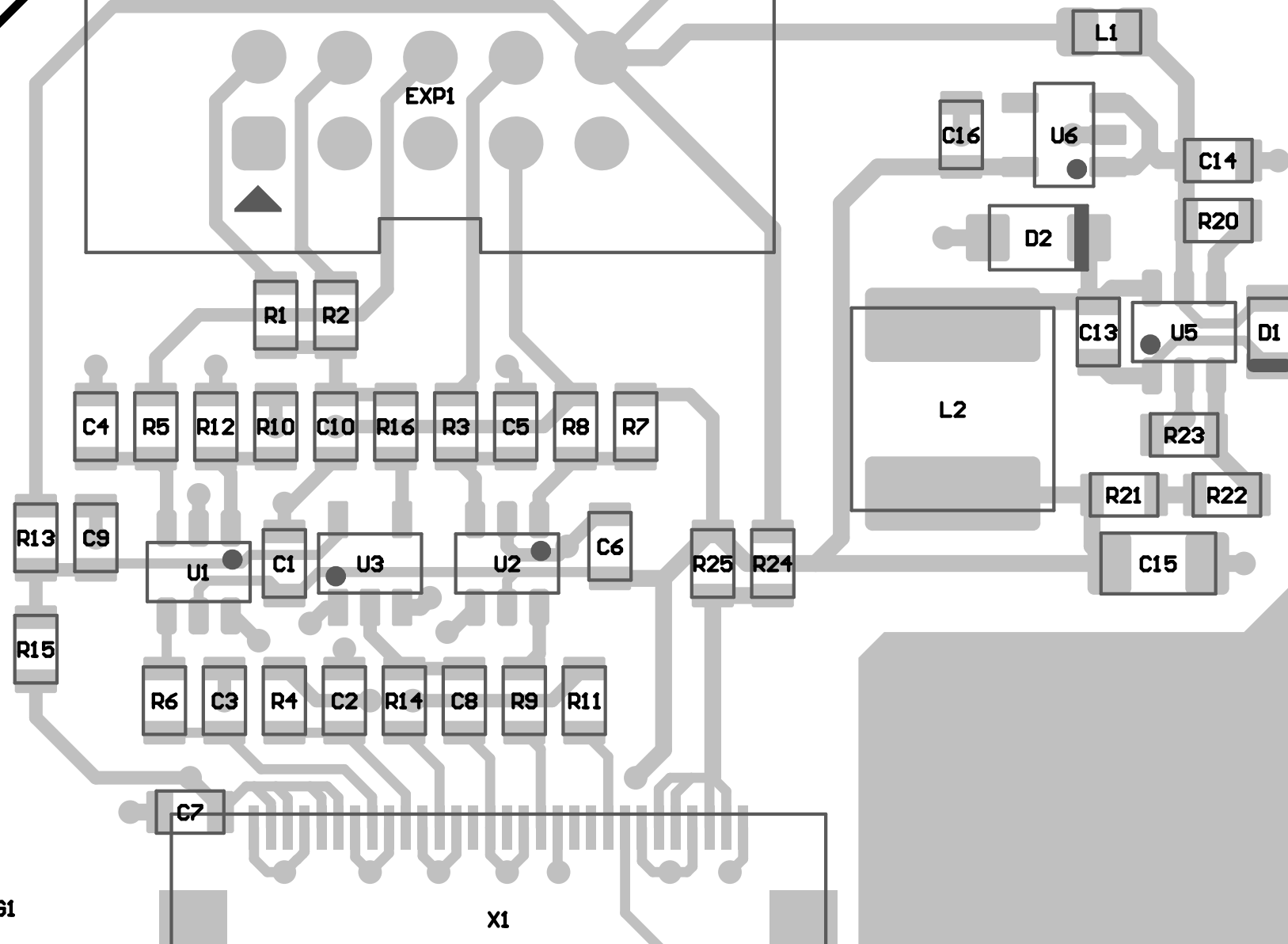
X1

MTG2

EXP1

L2

H1



D5019-05-03

73,00

65,00

33,00

