

MEGATRONICS 3.0 --> RepRapDiscount Full Graphic Smart Controller

LCD --> EXP1

1 LCD (GND) --> 9 EXP1 (GND)
2 LCD (5V/VCC) --> 10 EXP1 (VCC)
3 LCD (LCD contrast) --> //
4 LCD (LCD RS) --> 4 EXP1 (LCDRS)
5 LCD (GND) --> //
6 LCD (LCD enable) --> 3 EXP1 (LCDE)
7 LCD (LCD 4) --> 5 EXP1 (LCD4)
8 LCD (LCD 5) --> 6 EXP1 (LCD5)
9 LCD (LCD 6) --> 7 EXP1 (LCD6)
10 LCD (LCD 7) --> 8 EXP1 (LCD7)
11 LCD (5V) --> //
12 LCD (GND) --> //

KEYPAD --> EXP2 / EXP1

1 KEYPAD (5V/VCC) --> //
2 KEYPAD (GND) --> //
3 KEYPAD (KEYPAD encoder) --> 5 EXP2 (BTN_EN1)
4 KEYPAD (KEYPAD D33) --> 2 EXP1 (BTN_ENC)
5 KEYPAD (KEYPAD encoder(2)) --> 3 EXP2 (BTN_EN2)
6 KEYPAD (KEYPAD shift out) --> //
7 KEYPAD (SHIFT clock) --> //
8 KEYPAD (SHIFT LD) --> //
9 KEYPAD (KEYPAD D42) --> //
10 KEYPAD (KEYPAD D36) --> //

SD OUT --> EXP2

1 SD OUT (5V/VCC) --> //
2 SD OUT (A2) --> ?
3 SD OUT (MISO) --> 1 EXP2 (PB3 (MISO))
4 SD OUT (MOSI) --> 6 EXP2 (PB2 (MOSI))
5 SD OUT (SCK) --> 2 EXP2 (PB1 (SCK))
6 SD OUT (SS) --> ?
7 SD OUT (GND) --> //
6 SD OUT (not connected) --> //

4 EXP2 (SD_CSEL) --> ?
7 EXP2 (SD_DET) --> ?