

MCCMDB-16SIL-2

LCD / OLED Character display interface board with USB connection



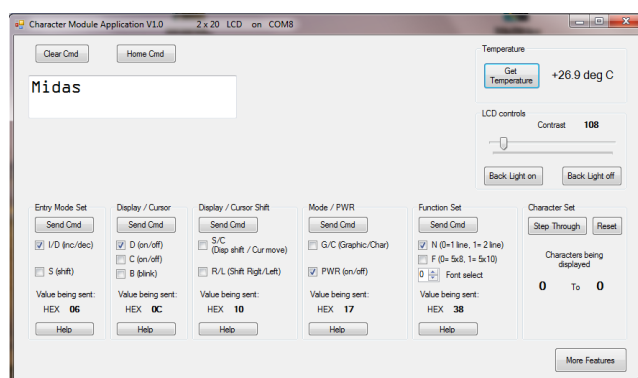
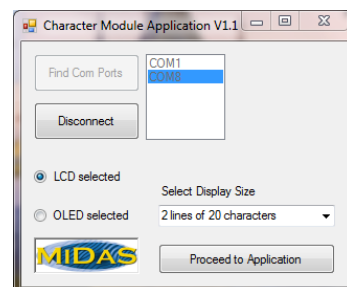
Features:

- Pin compatible with OLED / LCD 16 pin type 2 single in line (SIL) connectors.
- Powered from USB port or separate 5V supply.
- On board temperature measurement.
- On board digital LCD contrast voltage adjustment.
- On board digital LED backlight switch.
- On board LED backlight current limiting resistors.
- Re-programmable via USB port or directly using Microchip ICSP.
- Two general purpose Input Output (IO) ports.
- Windows application for display evaluation.
- Dimensions: 41.0 mm x 20.0 mm

Connections:

| CN1 16PIN 0.1" PITCH SIL. | Symbol | Description |
|---------------------------------|--------|-------------------------------------|
| 16 | LED+ | Switched to +5v via T1 (FET) and R6 |
| 15 | LED- | Connected to VSS via R5 |
| 1 | VSS | Supply 0 volts |
| 2 | VDD | Supply +5 volts |
| 3 | VO | LCD contrast adjustment voltage |
| 4 | RS | RS=0 Command. RS=1 Data |
| 5 | R/#W | R/#W=0 Write, R/#W=1 Read |
| 6 | E | Enable |
| 7 | D0 | Data 0 |
| 8 | D1 | Data 1 |
| 9 | D2 | Data 2 |
| 10 | D3 | Data 3 |
| 11 | D4 | Data 4 |
| 12 | D5 | Data 5 |
| 13 | D6 | Data 6 |
| 14 | D7 | Data 7 |

| CN3 Micro USB. | Symbol | Description |
|-------------------|--------|-----------------|
| 1 | VDD | Supply +5 volts |
| 2 | D- | USB- |
| 3 | D+ | USB+ |
| 4 | NC | Not Connected |
| 5,6,7,8,9 | VSS | Supply 0 volts |



| CN2 10PIN 0.1" PITCH SIL. | Symbol | Description |
|------------------------------|--------|-----------------------|
| 1 | VPP | RA3/#MCLR/VPP |
| 2 | VDD | Supply +5 volts |
| 3 | VSS | Supply 0 volts |
| 4 | D+ | RA0/D+/PGD |
| 5 | D- | RA1/D-/PGC |
| 6 | NC | Not Connected |
| 7 | IO1 | General IO bit 1 |
| 8 | IO2 | General IO bit 2 |
| 9 | VSS | Supply 0 volts |
| 10 | BOOT | Set low for boot mode |