



This is an upgrade to standard 16x2 LCDs, instead of just having blue and white, or red and black, this LCD has full colour RGB characters on a dark/black background! That means you can change the character display colours to anything you want.

You can use them in existing LCD projects and they'll still work – just that only the red LED will be used (so it will appear red-on-black). The extra two pins (17 and 18) are for the green and blue LEDs. The LCD has resistors on board already so that you can drive it with 5V logic and the current draw will be ~20mA per LED.

Comes with a single 16x2 RGB backlight LCD, 10K necessary contrast potentiometer and strip of header.

Technical Details:

- 16 characters wide, 2 rows
- Multi-colour text on dark background
- Connection port is 0.1" pitch, single row for easy breadboarding and wiring
- Pins are documented on the back of the LCD to assist in wiring it up
- Single RGB LED backlight included can be dimmed easily with a resistor or PWM and uses much less power than LCD with EL (electroluminescent) backlights
- Each R, G, & B LED has a 200 ohm resistor in series so you can power the backlight from 3V or 5VDC. R forward voltage is ~2.2V, G & B are ~3.4V
- Can be fully controlled with only 6 digital lines! (Any analogue/digital pins can be used) and 3 PWM pins for the backlight
- Built in character set supports English/Japanese text, see the HD44780 datasheet for the full character set
- Up to 8 extra characters can be created for custom glyphs or 'foreign' language support
- Comes with 10K necessary contrast potentiometer and strip of header
- Screen Dimensions: 27mm x 71mm / 1.1" x 2.8"