RGB backlight negative LCD 16x2 + extras - RGB on black

PRODUCT ID: 399

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DESCRIPTION

TECHNICAL DETAILS
DESCRIPTION

This is a fancy upgrade to standard 16x2 LCDs, instead of just having blue and white, or red and black, this LCD has full color RGB characters on a dark/black background! That means you can change the character display colors to anything you want - red, green, blue, pink, white, purple yellow, teal, salmon, chartreuse. This LCD looks strikingly good in person.

We had these custom made to our specification so that 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. There's a single LED backlight for the entire display, the image above showing 3 colors at once is a composite!

Comes with a single 16x2 RGB backlight LCD, 10K necessary contrast potentiometer and strip of header. Our tutorials and diagrams will have you up and running in no time! For more information, check out our detailed step-by-step tutorial for both Arduino & CircuitPython.

TECHNICAL DETAILS

- **Specifications**
  - 16 characters wide, 2 rows
  - Multi-color 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 analog/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”

Revision History:
- **Note:** As of Tuesday, April 5th 2016, we are shipping the revised version of this product. The 4 mounting holes are now 3.2mm (.125”) instead of 3mm (.118”)

The controller will be a HD44780-compatible, see the HD44780 datasheet with the detailed commands for control.

Check out our detailed step-by-step Arduino+LCD tutorial.

ROHS

LEARN

- **Character LCDs**
  - Wiring up a character LCD to an Arduino

- **Trinket Temperature & Humidity LCD Display**
  - Monitor temperature and humidity on an LCD display with this compact Trinket-based project

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**DISTRIBUTORS**

"A delayed game is eventually good, a bad game is bad forever" - Shigeru Miyamoto