

RGB backlight negative LCD 20x4 + extras - RGB on black

PRODUCT ID: 498

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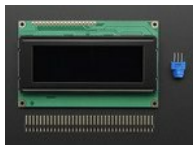
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DESCRIPTION

TECHNICAL DETAILS



DESCRIPTION

This is a fancy upgrade to standard 20x4 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

One nice thing about these LCDs is that they are an elegant upgrade, but 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 ~40mA per LED (there are two LEDs, 20mA each). 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 20x4 RGB backlight LCD, 10K necessary contrast potentiometer and strip of header.

For more information, check out our [detailed step-by-step tutorial for both Arduino & CircuitPython](#)

TECHNICAL DETAILS

- 20 characters wide, 4 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
- 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

This is the [datasheet for the display](#). The controller is a a HD44780-compatible, see the [HD44780 datasheet with the detailed commands for control](#)

Check out our [detailed step-by-step Arduino+LCD tutorial](#)

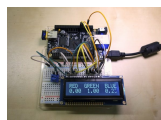


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Character LCDs

Wiring up a character LCD to an Arduino



Character LCD with Raspberry Pi or BeagleBone Black

Use a 16x2 or 20x4 character LCD with a small Linux board!

MAY WE ALSO SUGGEST...



Assembled Standard LCD



Standard LCD 20x4 + extras



RGB backlight positive LCD



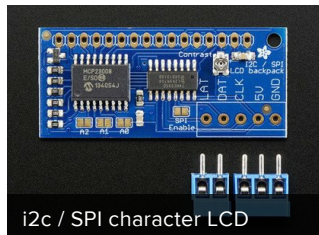
Blue Character OLED 16x2



USB + Serial Backpack Kit



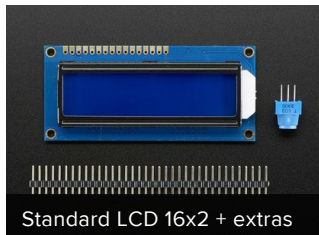
RGB backlight positive LCD



i2c / SPI character LCD



USB + Serial Backpack Kit



Standard LCD 16x2 + extras



RGB backlight negative LCD



Adafruit USB + Serial LCD

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Arthur O'Shaughnessy

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