

Nokia 5110/3310 monochrome LCD + extras

PRODUCT ID: 338

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1

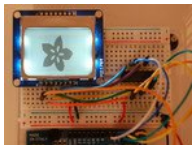
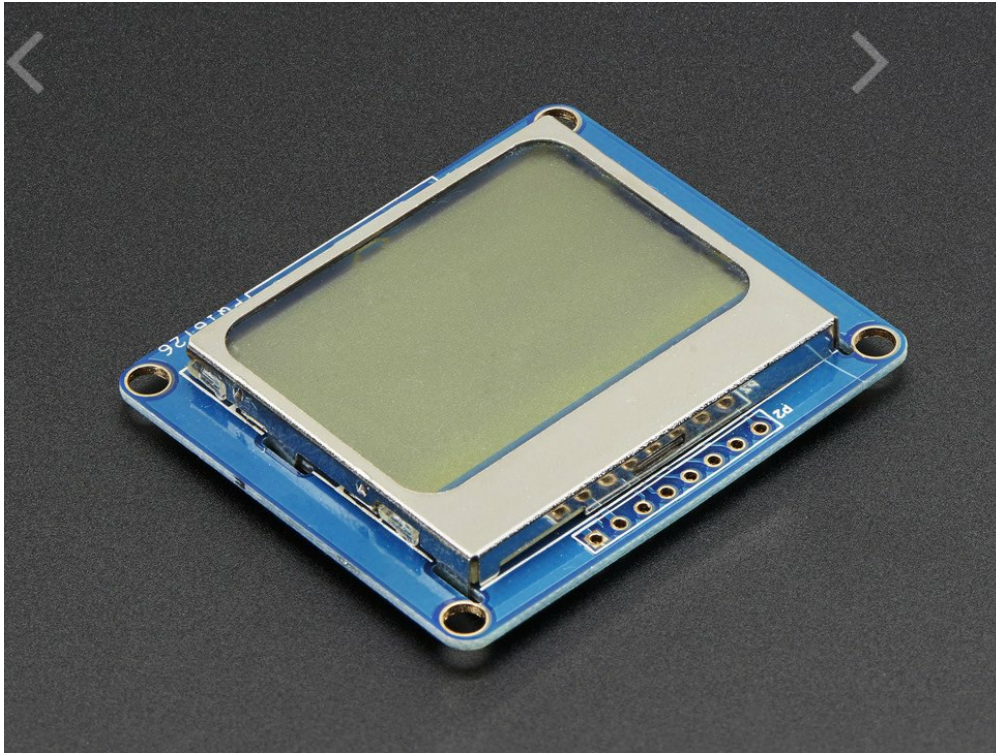
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[DESCRIPTION](#)[TECHNICAL DETAILS](#)

DESCRIPTION

These displays were used in old Nokia 5110/3310 cell phones (before the smart-phone fad turned every cell phone into a TV). It's a 84x48 pixel monochrome LCD display. These displays are small, only about 1.5" diagonal, but very readable and come with a white backlight. This display is made of 84x48 individual pixels, so you can use it for graphics, text or bitmaps. These displays are inexpensive, easy to use, require only a few digital I/O pins and are fairly low power as well

To drive the display, you will need 3 to 5 digital output pins (depending on whether you want to manually control the chip select and reset lines). Another pin can be used to control (via on/off or PWM) the backlight - the backlight LEDs are wired to a transistor.

The display driver is a PCD8544 chip, and it runs at 3.3V so you'll need a 3V supply handy (you don't need that much current though, maybe 10mA tops). Logic levels must be 3V to prevent damage but **we include a free level shifter chip so you can easily connect it to 5V logic such as an Arduino.**

These screens are recycled from older cell phones so they often have tiny nicks or scratches. There's no such thing as a 'new' Nokia 5110 display, but the scratches are not noticeable when in use.

Of course, we wouldn't just point you to a datasheet and say "good luck!" [To make it easy for you to use the display, we've written a nice graphics library that can print text, pixels, rectangles, circles and lines! The library is written for the Arduino but can easily be ported to your favorite microcontroller.](#)

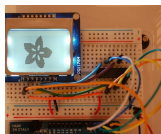
We also have [a detailed wiring and usage tutorial with more information about the display and more photos.](#)

TECHNICAL DETAILS

Board size is 1.94"x1.66"x0.25"

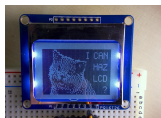


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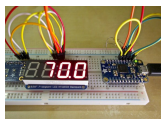
[Nokia 5110/3310 Monochrome LCD](#)

A guide to using our small Nokia 5110/3310 LCD w/backlight



[Nokia 5110/3310 LCD Python Library](#)

Use a simple graphic LCD with a Raspberry Pi or Beaglebone Black.



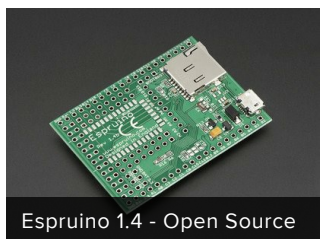
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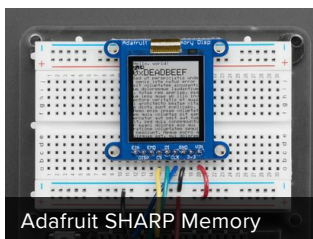
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