

## INKPLATE 6 - 6" E-PAPER BOARD WITH ENCLOSURE



**Weight** 216 g

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### DESCRIPTION

If you're like us, the first time you saw an e-reader, you thought to yourself, "I could *do* something with that." Thanks to clean lines, high contrast, daylight readability, and the remarkable level of energy efficiency that comes from drawing power only when changing the contents of the screen, e-paper is uniquely suited to many applications. With Inkplate 6, our goal is to make e-paper accessible to hobbyists and DIY product designers by offering a plug-and-play hardware platform that is super-easy to use and compatible with Arduino.

To name a few features, Inkplate 6 has stunning 6 inch e-paper display with refresh rate of 1.26s, with partial update 264ms, greyscale mode and partial updates support. Powered by ESP32, you will have strong microcontroller with WiFi and Bluetooth on your disposal. Using our [Arduino library](#), it's [5 minute work](#) to get the board running for you. It's 100% open-source for both [software](#) and [hardware](#), so it's [OSHWA certified](#). What is especially interesting is that Inkplate uses recycled screens taken from old e-book readers, which is very environmentally friendly, but you have to keep in mind that some screens may have small scratches because of this. All screens with large scratches and damages are not used at all.

### FEATURES

- 6-inch, 800x600 pixel e-paper display with support for greyscale, partial updates, and accelerated refresh cycles
- an on-board ESP32 microcontroller with integrated Wi-Fi and Bluetooth 4.0 (BLE)
- extremely low-energy, battery- or USB-powered operation (including a 25  $\mu$ A sleep state) that wrings days, weeks, or months out of a single charge, as well as charger for that battery
- microSD card reader from which Inkplate 6 can pull images to display
- three capacitive touch pads

- a form factor that's optimized for the design of custom enclosures
- Real Time Clock with battery holder, PCF85063A
- additional GPIO pins, easyC/Qwiic compatibility, and support for I<sup>2</sup>C and SPI
- Arduino libraries (100% compatible with Adafruit GFX) and a MicroPython module (work in progress!) that facilitate the rendering of text, images, and line art
- Comes with 3D printed enclosure

## USEFUL LINKS

- [Arduino library](#)
- [Open source hardware files](#)
- [Inkplate documentation](#)
- [Micropython module](#)
- [Getting started with Inkplate](#)
- [OSHWA certificate](#)

## OTHER IMAGES





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