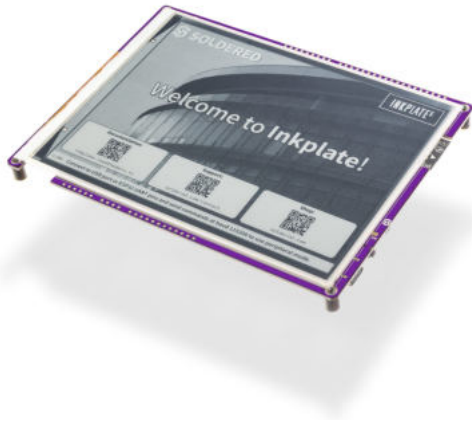


## SOLDERED INKPLATE 6



**Weight** 188 g

**Variant** Without EPD

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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. It's super-low-power (22uA) so you can use it for days, weeks, or months out of a single battery charge. Using our [Arduino library \(100% compatible with Adafruit GFX\)](#), it's [5 minute work](#) to get the board running for you. The [Micropython module](#) is available as well. It's 100% open-source for both [software](#) and [hardware](#). 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.

#### **Inkplate 6 options:**

**With e-paper display & enclosure:** This version offers a sturdy and sleek enclosure for your device, made with precision from a 3D printer. It's perfect for those who want an extra layer of protection without any added features.

**With e-paper display, enclosure, and battery:** Upgrade to this version if you're looking for both

protection and mobility. This option includes a 3D-printed enclosure as well as an integrated battery, ensuring your device stays powered even on the go.

**Without e-paper display:** For those who prefer a simpler or alternative display solution, this version does not include the e-paper display. It's ideal for users who have their own display solutions or prefer to use the device without a visual interface.

Choose the one that best fits your needs and enhance your experience!

## 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
- 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
- Optional 3D-printed enclosure
- Optional 3D-printed enclosure and 1200mAh battery

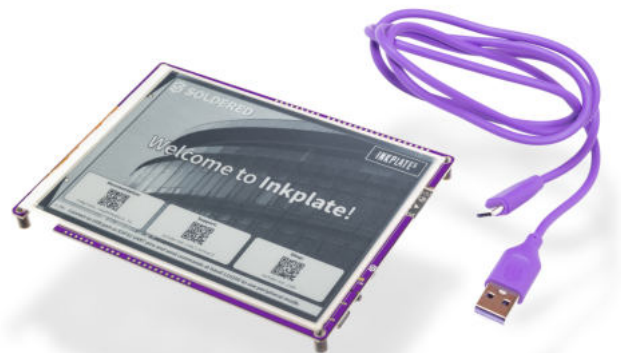
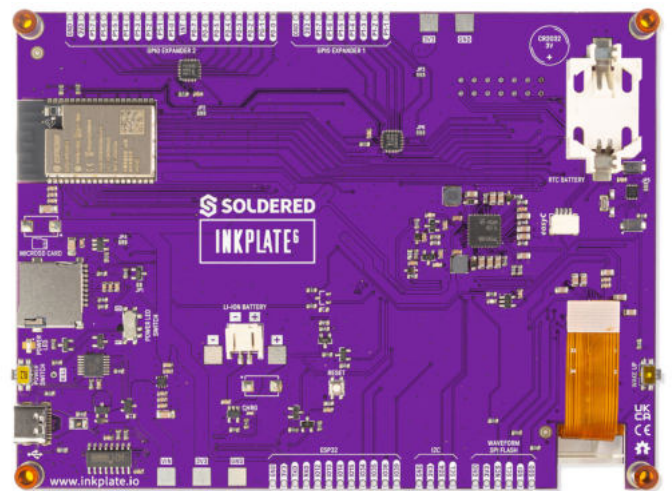
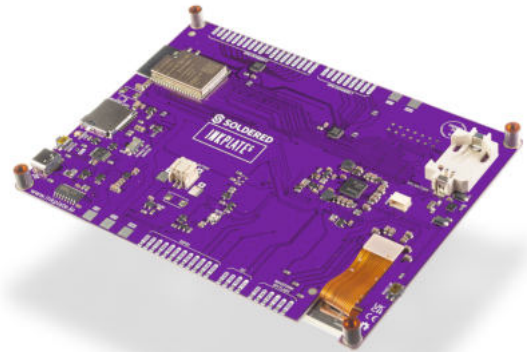
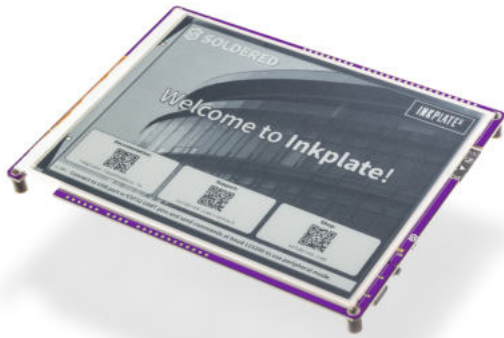
## USEFUL LINKS

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

## TIPS

The version without e-paper display (EPD) is to be used by professionals. We do not offer support for this type of board.

## OTHER IMAGES



**Weight**

188 g

**Variant**

Without e-paper Display, With e-paper, With e-paper & Enclosure, With e-paper, Enclosure & Battery

## VARIATIONS

Image

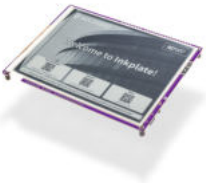
SKU

Variant



333234

Without e-paper Display



333232

With e-paper



333233

With e-paper & Enclosure



333229

With e-paper, Enclosure & Battery