

SOLDERED INKPLATE 6PLUS



Weight 210 g

Variant With e-paper, Enclosure & Battery

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. Following Inkplate 6 and 10 success, with Inkplate 6PLUS we continue 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. 6PLUS adds touchscreen and frontlighting, making it a perfect solution for interactive projects.

To name a few features, Inkplate 6PLUS has stunning 6.0 inch e-paper display with refresh rate of 1.27s, greyscale mode and partial updates support. Additionally, it had touchscreen with possibility to detect two simultaneous touches, as well as front lighting controllable in 64 steps. 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. There's Li-ion battery charger, Real Time Clock (RTC), additional GPIO pins, and more. 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 6PLUS 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!

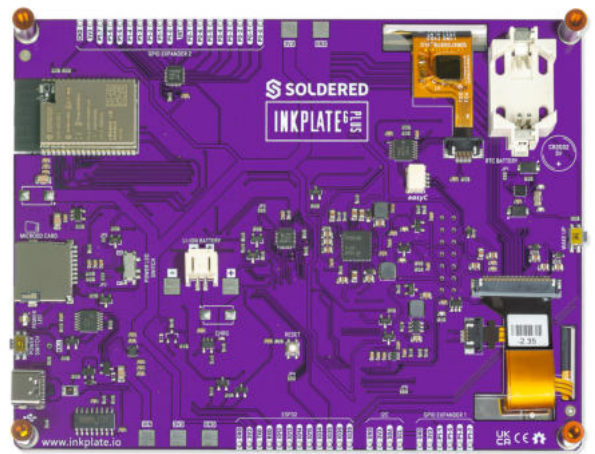
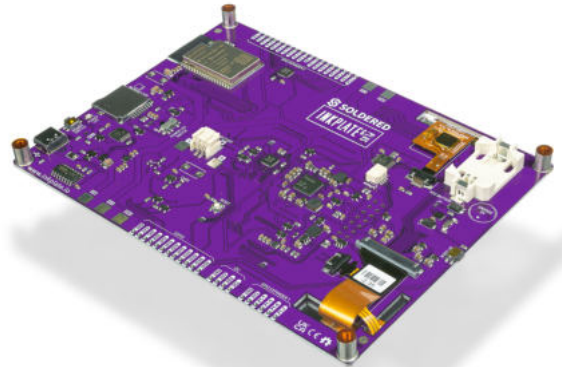
FEATURES

- a 6.0 inch, 1024x758 pixel e-paper display with support for greyscale, partial updates, and accelerated refresh cycles
- touchscreen with support for two simultaneous touches
- front-lighting controllable in 64 steps
- an on-board ESP32 microcontroller with integrated Wi-Fi and Bluetooth 4.0 (BLE)
- extremely low-energy, battery- or USB-powered operation (including a 22 μ A sleep state) that wrings days, weeks, or months out of a single charge, as well as charger for that battery
- a microSD card reader from which Inkplate 6PLUS can pull images to display
- a form factor that's optimized for the design of custom enclosures
- additional GPIO pins, easyC/Qwiic compatibility, and support for I²C 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

USEFUL LINKS

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

OTHER IMAGES



Weight

210 g

Variant

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

VARIATIONS

Image

SKU

Variant



333237

Without e-paper Display



333235

With e-paper



333236

With e-paper & Enclosure



333230

With e-paper, Enclosure & Battery

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Soldered:](#)

[000288](#)