

## SOLDERED INKPLATE 5



**Weight** 154 g

**Variant** Without e-paper Display

---

### DESCRIPTION

Introducing the Inkplate 5, a versatile Arduino & Micropython compatible board that features a recycled 5.2" E-Ink (e-paper) display with rapid refresh times of only 0.19 seconds. This fully open-source, plug-and-play device, powered by an [ESP32 microcontroller](#), is designed to connect effortlessly to the internet via WiFi or to other devices through Bluetooth.

Its energy-efficient design allows for ultra-low power consumption, making it capable of running for months on a single Li-ion battery charge. The Inkplate 5 is not just about power and connectivity; it's also about convenience. The onboard microSD slot and a Real-Time Clock ensure unlimited data capabilities and precise timekeeping. The device even boasts numerous GPIO pins, allowing for easy expansion of your projects with virtually any peripheral.

Inkplate 5's e-paper panel display is a visual delight. It provides beautiful, crisp image under all conditions, including direct sunlight, that's always-on. Its screen resolution is 960 x 540 pixels, in monochrome, with black, white and 6 shades of grey support. The most interesting bit? The E-Ink screen does not require any power in between screen updates.

Inkplate 5 does a full refresh as quick as 1.02s for full refresh and 0.19s for partial refresh. That's 5fps, if you wish.

Our device is a fantastic entry point for those wanting to experiment with E-Ink technology, all neatly packed into a compact board.

#### **Inkplate 5 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

- 5.2-inch, 960x540 pixel electronic paper with support for grayscale, partial updates, and an exceptionally fast content change on the screen
- Powered by an ESP32 microcontroller with built-in WiFi and Bluetooth 4.0 (BLE)
- It consumes very small amount of energy, whether powered by a lithium battery or USB. In deep sleep mode, it consumes only 18  $\mu$ A, so it will operate on a single battery for years, and there's also a battery charger located on the board
- MicroSD card reader from which Inkplate 5 can pull images to display on its screen
- Additional GPIO lines available, easyC/Qwiic compatibility, and support for I<sup>2</sup>C and SPI
- Arduino library ready (100% compatible with Adafruit GFX) and micropython that enable the display of text, images, and geometric shapes
- Optional 3D-printed enclosure
- Optional 3D-printed enclosure and 1200mAh battery
- Optional version without e-paper display
- Dimensions for version without EPD: 130.6 x 75.2 x 9.3 mm / 5.1 x 3 x 0.4 inch

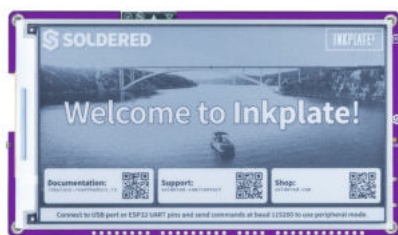
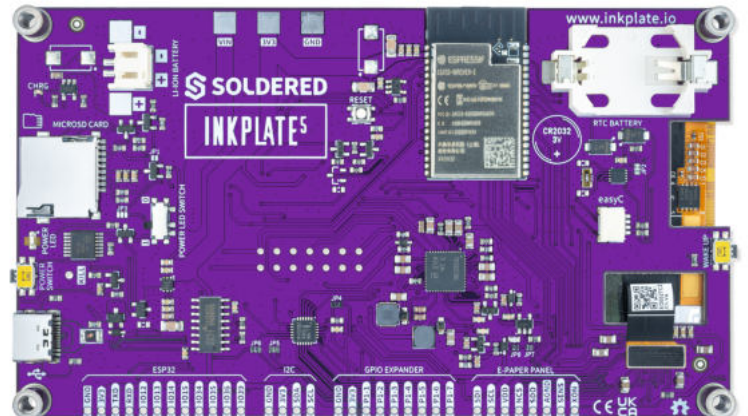
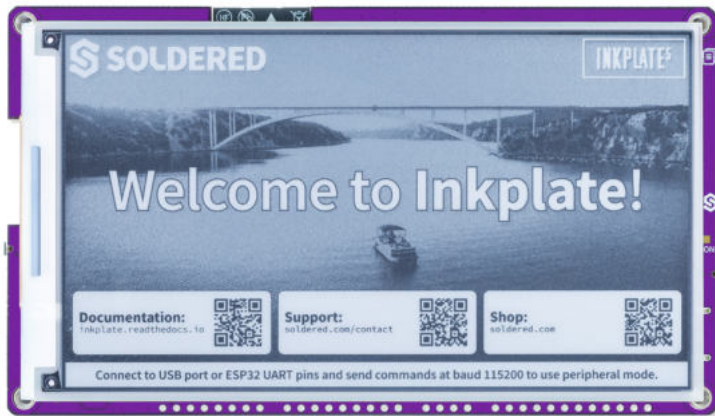
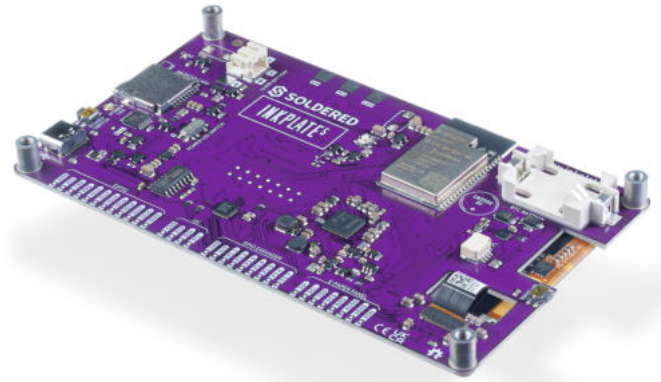
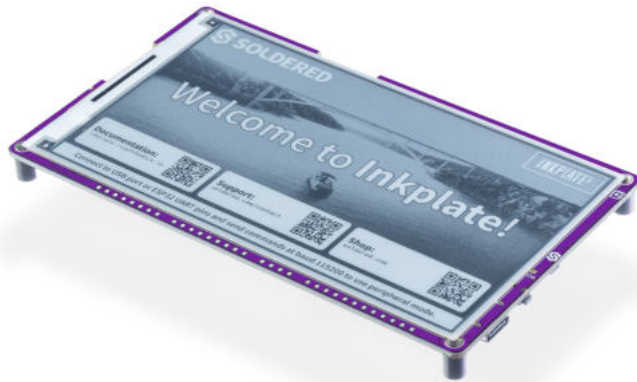
## USEFUL LINKS

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

## 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

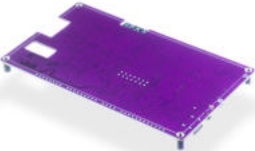





**Weight**

154 g

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

VARIATIONS

Image	SKU	Variant
	333257	Without e-paper Display
	333255	With e-paper
	333256	With e-paper & Enclosure
	333258	With e-paper, Enclosure & Battery