SOLDERED INKPLATE 5 GEN2

Weight	152 g
Variant	Without e-paper Display, With e-paper, With e-paper & Enclosure, With e-paper, Enclosure & Battery

DESCRIPTION

Introducing the Inkplate 5 Gen2, a versatile board compatible with Arduino and MicroPython technologies, featuring a recycled 5.2" E-Ink (e-paper) display with fast refresh times of just 0.22 seconds. This fully open, plug-and-play device, powered by the ESP32 microcontroller, is designed for effortless internet connectivity via WiFi or with other devices via Bluetooth.

Its energy-efficient design allows for ultra-low power consumption, enabling it to operate for months on a single charge of a Li-ion battery. The Inkplate 5 Gen2 is not only about power and connectivity; it's also about convenience. The built-in microSD slot and real-time clock provide unlimited data storage possibilities and precise timekeeping. The device even features numerous GPIO pins, allowing easy expansion of your projects with almost any peripheral device.

The e-paper display of the Inkplate 5 Gen2 offers visual delight. It provides a beautiful, sharp image under all conditions, including direct sunlight, which is always on. The display resolution is 720x1280 pixels, in monochromatic mode, supporting black, white, and 6 shades of gray. The most interesting part? The E-Ink display requires no power between screen updates.

The Inkplate 5 Gen2 refreshes at a speed of 0.99s for a full refresh and 0.22s for a partial refresh.

Our device is a fantastic starting point for those wanting to experiment with E-Ink technology, all neatly packaged in a compact board.

Inkplate 5 Gen2 options:

1. **With e-paper screen & casing**: This version offers a sturdy and elegant casing for your device, made with precision from a 3D printer. Perfect for those who want an extra layer of protection without

additional features.

2. **With e-paper screen, casing, and battery**: Upgrade to this version if you seek protection and mobility. This option includes a 3D-printed casing as well as an integrated battery, ensuring your device stays powered even on the go.

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

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

FEATURES

- 5.2-inch, 720x1280 pixel electronic paper with support for grayscale, partial updates, and exceptionally fast content changes on the screen
- Powered by an ESP32 microcontroller with built-in WiFi and Bluetooth 4.0 (BLE)
- Consumes extremely low power, whether powered by a lithium battery or USB.
- In deep sleep mode, it uses only 18 µA, allowing it to operate for years on a single battery. Additionally, it has a battery charger integrated on the board!
- microSD card reader from which the Inkplate 5 can load images to display on its screen
- Additional GPIO lines available, easyC/Qwiic compatibility, and support for I²C and SPI
- Arduino library ready (100% compatible with Adafruit GFX) and MicroPython support, enabling the display of text, images, and geometric shapes.
- Refresh time: 0.99s
- Partial refresh time: 0.22s
- Dimensions of the version without the display: 130.59 x 75.23 mm

USEFUL LINKS

OTHER IMAGES

with battery

Weight	152 g
Variant	Without e-paper Display, With e-paper, With e-paper & Enclosure, With e-paper, Enclosure & Battery

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