

SOLDERED INKPLATE 4 TEMPERA



Weight	555 g
Variant	With glass panel, Without glass panel

DESCRIPTION

Inkplate 4 TEMPERA is an easy-to-use, all-in-one device that puts the power of e-paper technology in the palm of your hand. Behind its 3.8-inch, 600x600-pixel e-paper touchscreen, it packs the following features into one compact, elegant package: frontlighting, an abundance of sensors, Wi-Fi and Bluetooth connectivity, a built-in battery, and a low-power operating mode.

In this digital age, screens are the windows through which we interact with much of our world, and e-paper technology addresses many of the challenges posed by conventional screens. More specifically, they offer high contrast, daylight readability, and unparalleled energy efficiency. And there is one more thing that sets our screens apart: *sustainability*. Every Inkplate 4 TEMPERA gives new life to an ED038TH2 *E Ink* display that we've rescued from a tragic future as e-waste. We'd rather see these screens in your hands than in a landfill.

Inkplate 4 TEMPERA is powered by the ESP32 microcontroller, to which we've added all of the peripherals we thought you might find useful. Inside the enclosure is a 1200-mAh battery and power-management circuitry so you can charge it easily and determine its remaining charge accurately. Inkplate 4 TEMPERA's real-time clock (RTC) allows for precise time measurements, and its microSD card slot allows you to store and display images, among other applications. If you're looking for sensors, you'll find a gyroscope and an accelerometer, as well as temperature, humidity, air quality, and gesture sensors. Inkplate 4 TEMPERA also has a built-in, frequency-adjustable buzzer. And of course, it includes various GPIO pins that support peripheral connectivity through a GPIO expander or via the [easyC ecosystem](#).

So, if you're in the market for a nice-looking screen on which you can display whatever you want—wherever, at whatever time of day, and for however long you want—we invite you to check out

Inkplate 4 TEMPERA. We think you'll find it delightful!

Inkplate 4 TEMPERA options:

Without glass panel: This version is powered by an ESP32 microcontroller, with a 3.8-inch touchscreen e-paper display, built-in lighting, Li-Ion battery, housing, and various peripheral components.

With glass panel: This version is powered by an ESP32 microcontroller, with a 3.8-inch touchscreen e-paper display, built-in lighting, Li-Ion battery, housing, various peripheral components, and additionally protected by a glass panel.

FEATURES

- 3.8-inch, 600x600 pixel touch-sensitive electronic paper with grayscale support, partial updates, and extremely fast content refresh on the screen
- Powered by an ESP32 microcontroller with built-in WiFi and Bluetooth 4.0 (BLE)
- Low power consumption, whether powered by a lithium battery or USB, in deep sleep mode it only consumes 18 μ A so it will work on a single battery for even years, and there's also a battery charger located on the board!
- microSD card reader from which the Inkplate 4 can pull images to display on its screen
- Arduino library ready (100% compatible with Adafruit GFX)
- Inkplate 4 has an APDS-9960 gesture sensor, BME680 environmental and air quality sensor, Buzzer, and an accelerometer and gyroscope
- Comes with a 1200mAh li-ion battery and a 3D printed case
- Dimensions version with glass panel: 90 x 83 x 24 mm
- Dimensions version without glass panel: 90 x 83 x 24 mm

USEFUL LINKS

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

Weight

555 g

Variant

With glass panel, Without glass panel

VARIATIONS

Image

SKU

Variant



333307

Without glass panel

333308

With glass panel