Overview

Inkplate 10 brings the clarity and efficiency of large-format e-paper to DIY electronics. With its **9.7-inch recycled E-Ink display**, ultra-low power design, and full **Wi-Fi + Bluetooth** support, it's ideal for smart dashboards, wall-mounted displays, and always-on visual interfaces. Just plug it in and start developing. Inkplate 10 is fully compatible with **Arduino** and **MicroPython**, and it's entirely **open-source**.

The high-resolution screen supports **grayscale rendering**, **partial updates**, and fast refresh times, while its **ESP32 microcontroller** ensures smooth wireless operation. It also includes a **microSD slot**, **RTC**, and **GPIO expansion** through **I²C, SPI, and EasyC/Qwiic**. Whether battery- or USB-powered, this display works for weeks or months thanks to its energy-efficient design. And with a **3D-printed case and optional battery**, Inkplate 10 is ready to go wherever your project takes it.
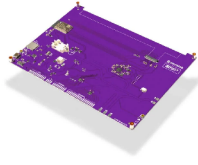

Inkplate 10 e-paper display board

Which product is this documentation for?

Inkplate 10

333241

Inkplate 10 without e-paper Display

333243

Inkplate 10 with e-paper & enclosure

333242

Inkplate 10 with e-paper, Enclosure & Battery

333247

Key Features

- **Display Size:** 9.7" e-paper (grayscale)

- **Resolution:** 1200 × 825 pixels

- **Refresh Time:** 1.61s (full), supports partial updates

- **Microcontroller:** ESP32 (Wi-Fi + Bluetooth 4.0 BLE)

- **Power Supply:** USB or Li-Ion battery (charger onboard)

- **Power Consumption:** 22 μA in deep sleep mode

- **Programming Support:** Arduino (Adafruit GFX compatible), MicroPython

- **Storage:** microSD card slot for image/data loading

- **Clock:** Real-Time Clock (RTC) with battery holder

- **Expansion:** GPIO, I^2C, SPI, EasyC/Qwiic-compatible

- **Sustainability:** Recycled e-paper display (minor scratches possible)

- **Enclosure Options:**

- - With 3D-printed enclosure
  - With enclosure and 3000mAh battery
  - Without e-paper display
- **Open Source:** Hardware and software
- **Dimensions (without EPD):** 224.3 × 163 × 10 mm / 8.8 × 6.4 × 0.4 inch
- **Dimensions (with enclosure):** 240 × 179.5 × 13.5 mm / 9.4 × 7.1 × 0.5 inch

Tags: 333241 333243 333242 333247 Inkplate 10 Inkplate10