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INDUSTRIAL PRODUCT DATASHEET

XIAO ePaper DIY Kit EE03 for 10.3" Monochrome ePaper Display

XIAO ePaper DIY Kit EE03: A ready-to-use 10.3" ePaper solution with XIAO ESP32-S3 Plus, high-speed refresh, and SenseCraft Seeedash no-code UI platform.

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Overview

The XIAO ePaper DIY Kit EE03 integrates a pre-flashed XIAO ESP32-S3 Plus with a dedicated 10.3" monochrome ePaper display (1404 × 1872 pixels, 16-level grayscale) for immediate no-code UI deployment via SenseCraft Seeedash. It enables high-speed refresh with T-CON timing control and SHT40 temperature compensation, ideal for e-book readers, real-time dashboards, security alerts, and public transit arrival boards.

Key Features

Note:

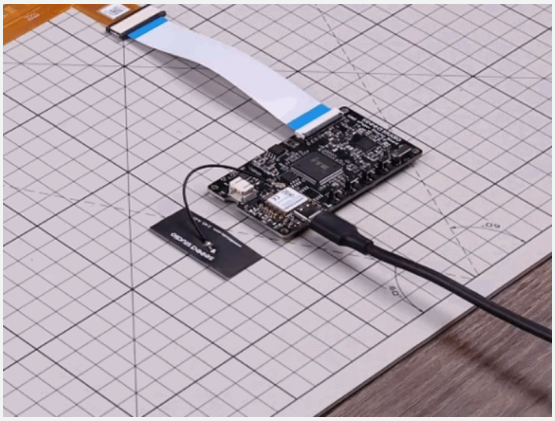
- XIAO ePaper DIY Kit EE03 supports **SenseCraft Seeedash**, our no-code UI design platform, formerly known as SenseCraft HMI. All your existing content remains available.

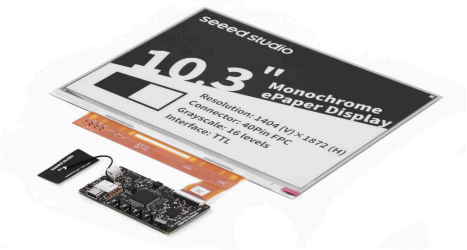
- **Built in XIAO ESP32-S3 Plus：** Works immediately when connected to a compatible ePaper display.
- **Dedicated 10.3" Monochrome ePaper Display Support:** Specifically designed for **10.3" high-speed refresh epaper display** with 1404 × 1872 pixels and up to 16-level grayscale, ensuring quick setup and stable operation.
- **High-Speed Refresh Enabled:** Integrated T-CON timing control ensures precise high-speed driving, while the onboard SHT40 provides real-time temperature sensing for waveform compensation.
- **BAT Connector with Switch:** Provides simple battery connection and integrates a switch, enabling efficient power management and energy savings.
- **User-Friendly Buttons:** Features 1 reset button and 3 user-programmable buttons, providing flexibility for project acceleration and customizable functions.
- **SenseCraft Seeedash Firmware Pre-Flashed**: Simply plug in and start right away with **SenseCraft Seeedash**, our AI-powered no-code UI design platform. Choose from rich templates or drag-and-drop UI building (with optional AI assistance), and deploy to the ePaper display in just a few clicks.

Note:

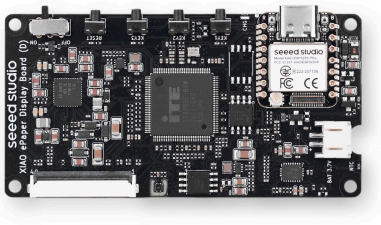
Occasional high-frequency sound may occur during operation. This is normal due to the ePaper power circuit and does not affect performance.

Product Gallery

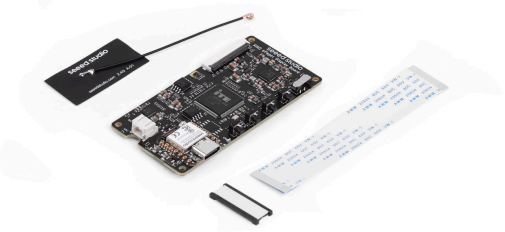


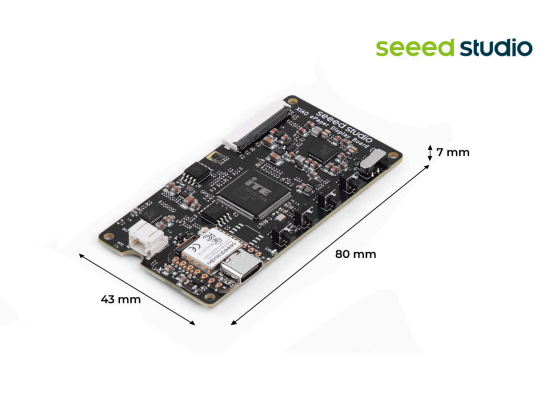


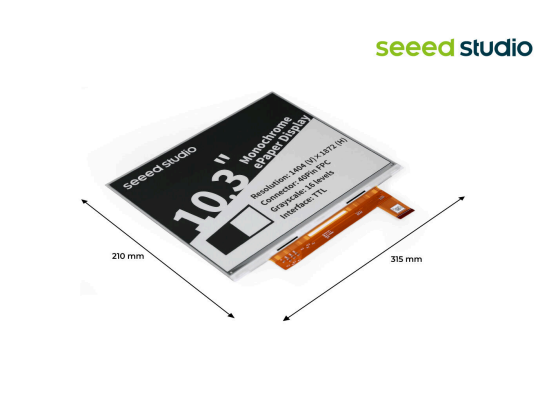








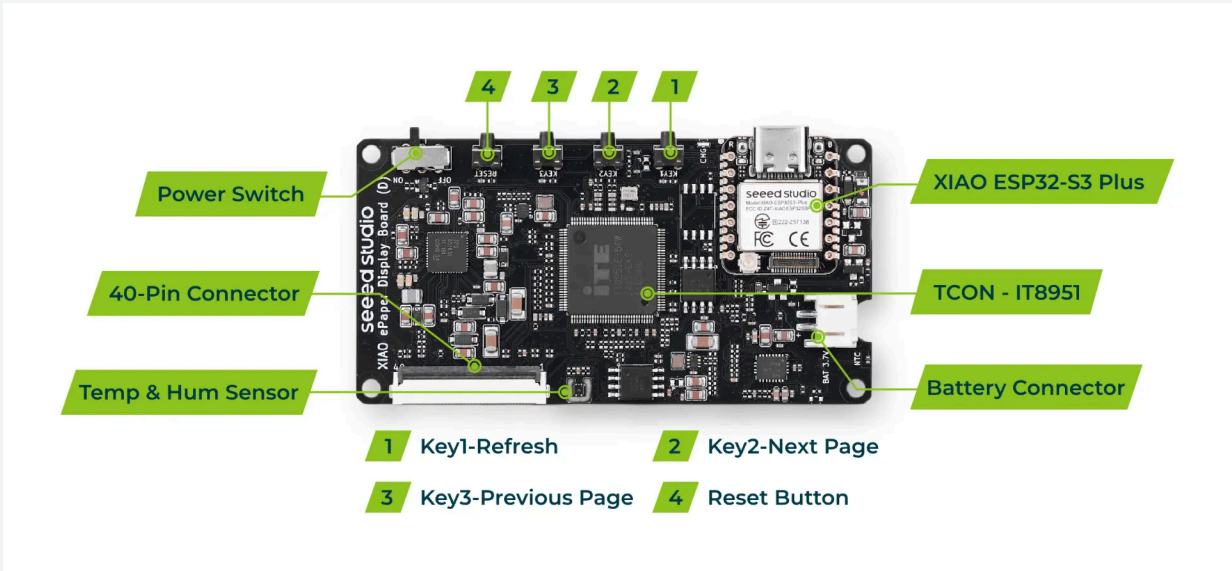




Specification

Parameter	Description
Processor	XIAO ESP32-S3 Plus
ePaper Connector	FPC 40 Pin 0.5mm
Battery Connector	JST 2.0mm
Switch	Battery Power ON/OFF
Power Supply	- 3.7V Li-Battery - USB Type-C
Button	-1x Reset button -3x User button

Hardware Overview



Applications

- **Digital E-Book Readers:** Deliver a paper-like monochrome reading experience with 16-level grayscale and fast refresh for smoother page turns and more responsive updates.
- **Real-Time Dashboard:** Display live information such as weather updates, calendar schedules, key notifications, and data widgets like energy usage, sensor status, or KPIs.
- **Security Alerts:** Display alerts and notifications about security events, such as motion detection or door/window sensor activation.
- **Public Transit Arrival Board:** Show real-time bus/train arrival times, route status, and service alerts at a glance for daily commuting.

Product	Name	Resolution	Display Color	Partial Refresh	SenseCraft HMI
		200x200		√	√
		250x122		√	√
		250×122			√
		212x104		√	
		296x128			
		296x128		√	√
		296x128			√
		400x300		√	
		800x480			√
		648x480		√	
		800x480			√
		800x480		√	√
		1404×1872		√	√
		1600x1200			√

Resource Links

- https://www.seeedstudio.com/XIAO-ePaper-DIY-Kit-EE03-for-10-3-Monochrome-ePaper-Display.html
- XIA0 ePaper Display Board EE03 Resources

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