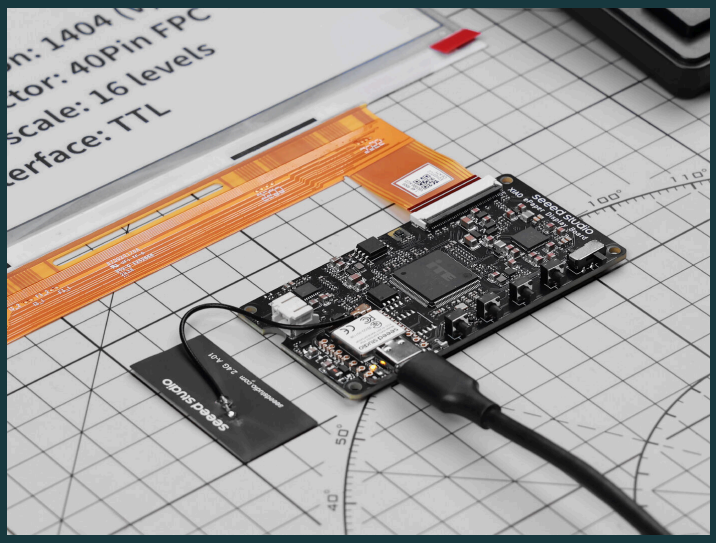
seeed studio

INDUSTRIAL PRODUCT DATASHEET

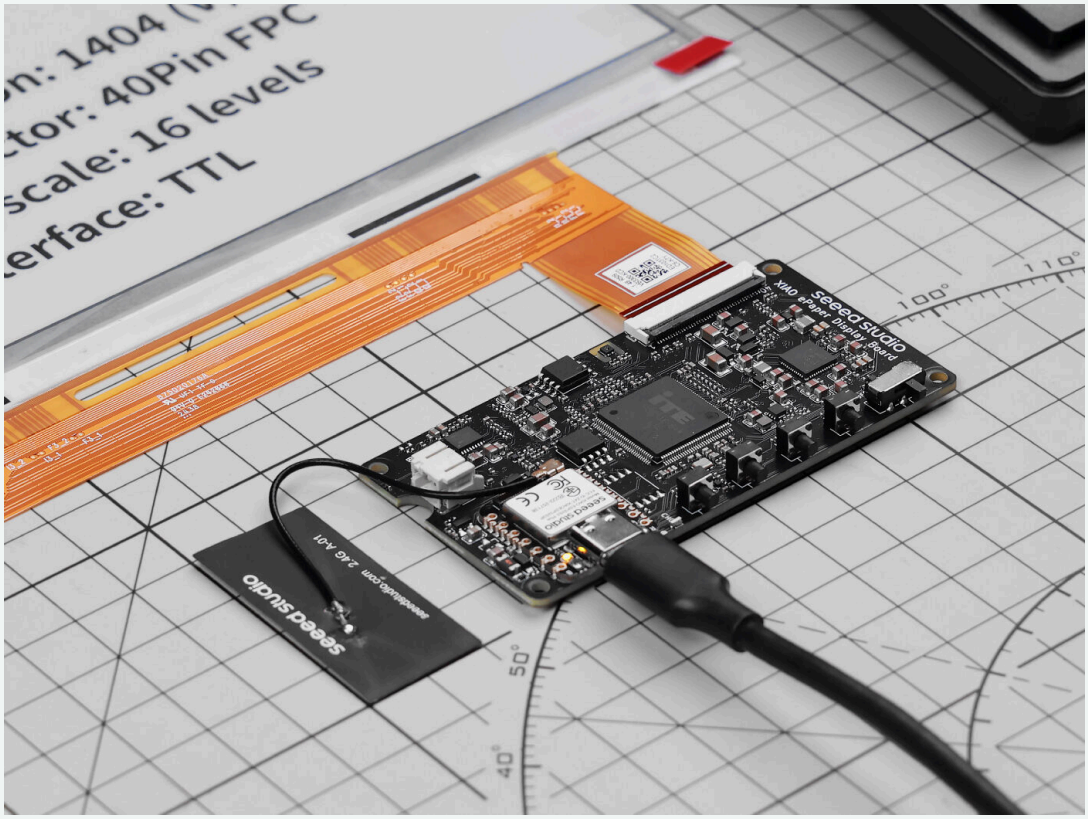
XIAO ePaper Display Board EE03 for 10.3" Monochrome ePaper Display

Powered by XIAO ESP32-S3 Plus, the ePaperdriverboard EE03 supports10.3" Monochrome ePaper Display with 1404 × 1872 pixels and up to 16-level grayscale.

SKU	UPDATED	PRICE
100080566	2026-11-12 09:55:11	$32.90(Excl. VAT)



Overview



Powered by XIAO ESP32-S3 Plus, the ePaperdriverboard EE03 supports10.3" Monochrome ePaper Display with 1404 × 1872 pixels and up to 16-level grayscale. It features a JST 2.0 mm battery connector with power switch, built-in charging IC, and comes with one reset and three user buttons. Well-suited for low-power ePaper projects such as digital e-book readers and information boards.

Key Features

01 **Builtin XIAO ESP32-S3 Plus：Works immediately when connected to a compatible ePaper display.**

02 **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.

03 **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.

04 **BAT Connector with Switch**

Provides simple battery connection and integrates a switch, enabling efficient power management and energy savings.

05 **User-Friendly Buttons**

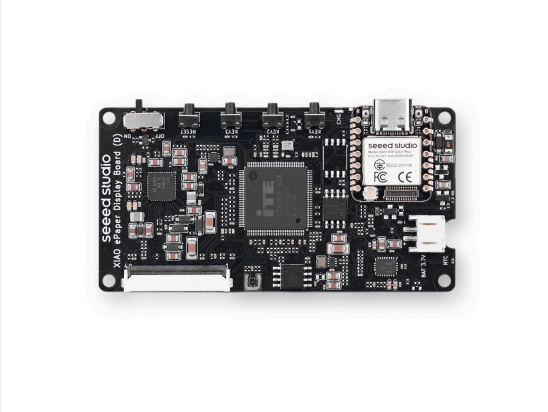
Features 1 reset button and 3 user-programmable buttons, providing flexibility for project acceleration and customizable functions.

06 **SenseCraft HMI Firmware Pre-Flashed**

Simply plug in and start right away with SenseCraft HMI, 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.

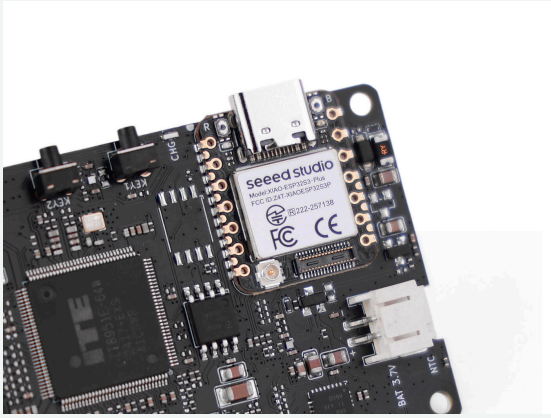
Product Gallery

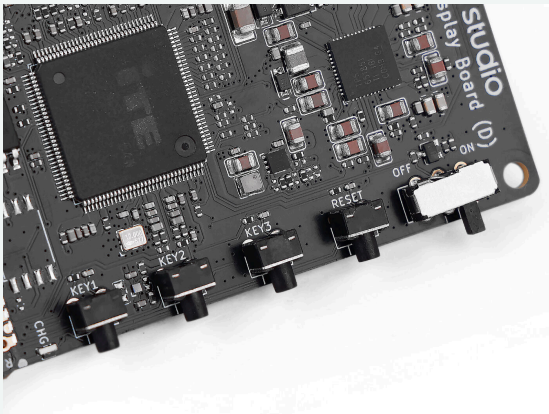


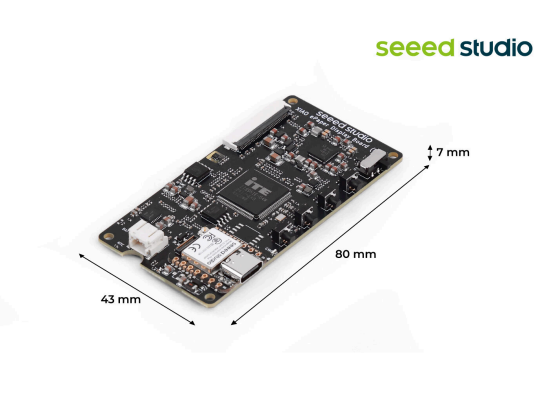




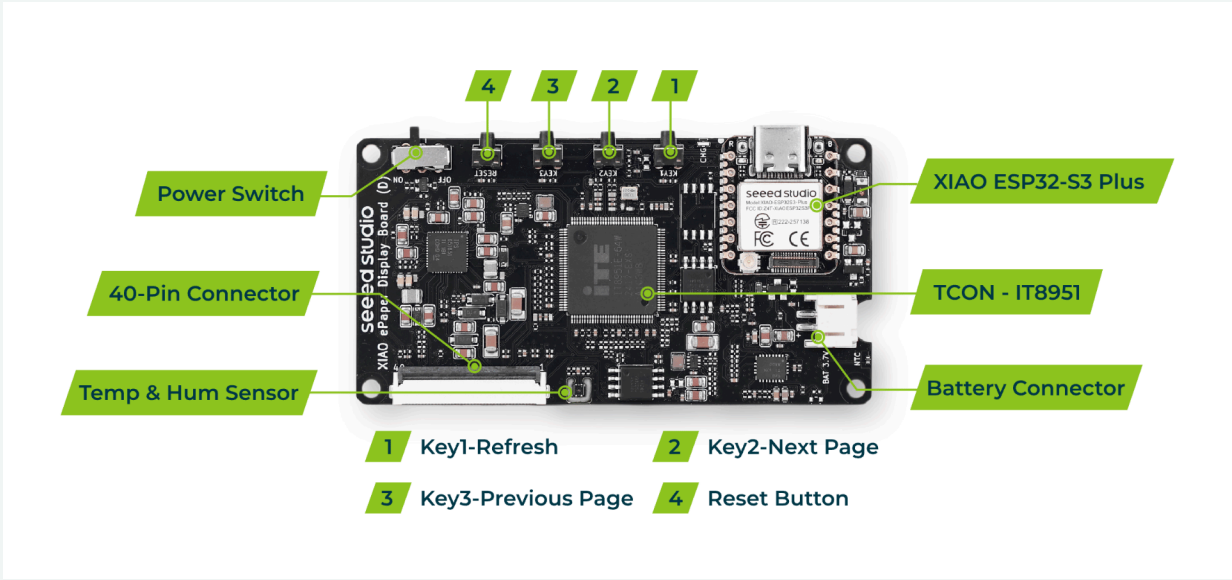








Hardware Overview



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.**
- **ePaper Board Selection Guide**
- **ePaper Display Board EE05**
- **ePaper Display Board EN05**
- **ePaper Display Board EE04**
- **ePaper Display Board EN04**
- **ePaper Display Board EE03**
- **ePaper Display Board EE02**
- **ePaper Driver Board**

Product								
Processor	XIAOESP32-S3 Plus	XIAOnRF52840 Plus	XIAOESP32-S3 Plus	XIAOnRF52840 Plus	XIAO ESP32-S3 Plus	XIAO ESP32-S3 Plus	N/A(Compatible with XIAO Series)	
Compatible Displays	24 Pin ePaper	24 Pin ePaper50 Pin ePaper			24 Pin ePaper			
Battery Connector	JST 2.0mm	JST 2.0mm	JST 2.0mm	JST 2.0mm	JST 2.0mm	/		
Battery Power ON/OFF	√	√	√	√	√	/		
Button	1x Reset,3x User	1x Reset,3x User	1x Reset3x User	1x Reset3x User	/			
Extension IO Port	√	/	/	/	√			
SenseCraft HMI	√	/	√	/	√	√	/	

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-Display-Board-ESP32-S3-EE03-p-6638.html
- XIA0 ePaper Display Board EE03 Resources

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com