

seed studio

INDUSTRIAL PRODUCT DATASHEET

XIAO ePaper Display Board(ESP32-S3) - EE04

Powered by XIAO ESP32-S3 Plus, the display board EE04 supports both 24-pin and 50-pin ePaper displays.

SKU

100075670

UPDATED

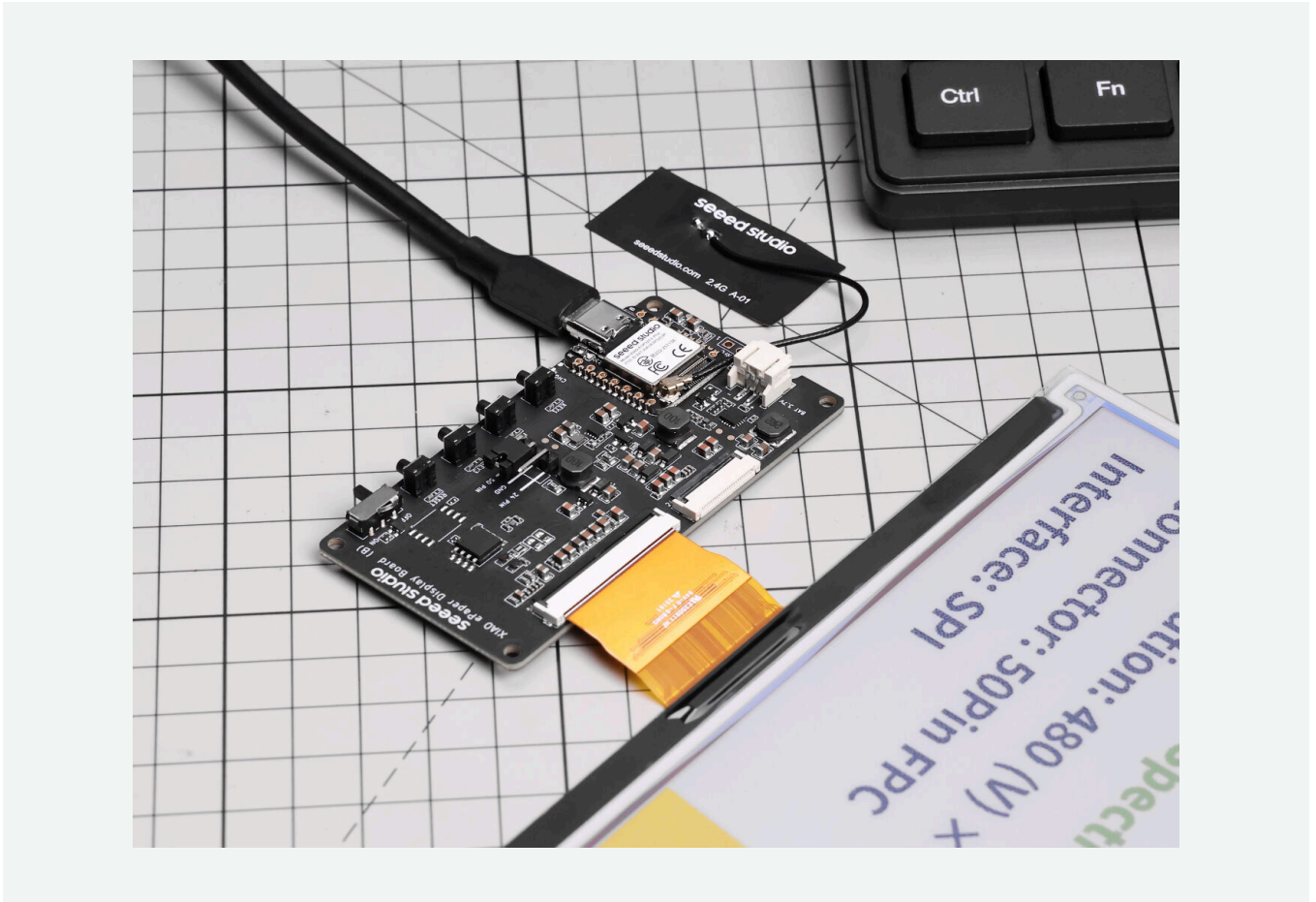
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PRICE

\$9.90(Excl. VAT)



Overview



Powered by XIAO ESP32-S3 Plus, the display board EE04 supports both 24-pin and 50-pin ePaper displays. 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 signage, electronic labels, and portable information boards.

Key Features

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

02 **Versatile Display Support**

Compatible with a wide range of ePaper screens, supporting both 24-Pin and 50-Pin interfaces with easy switching via jumper caps.

03 **BAT Connector with Switch**

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

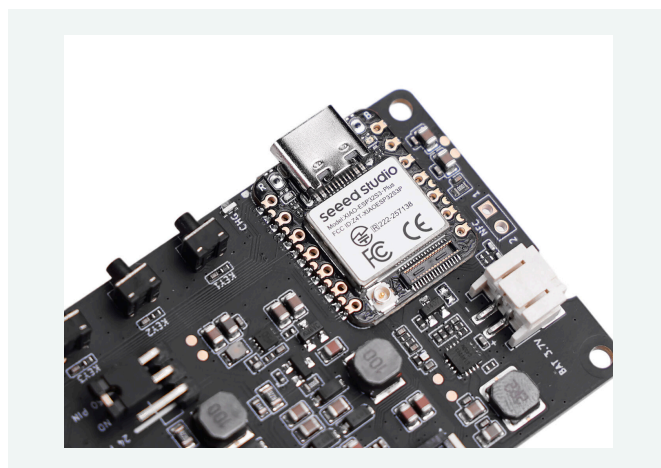
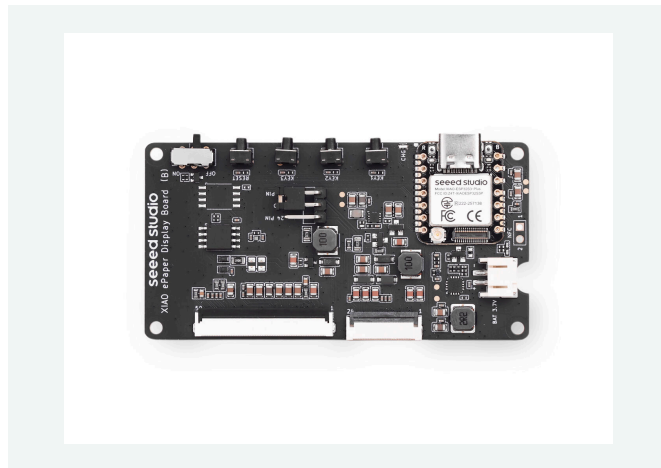
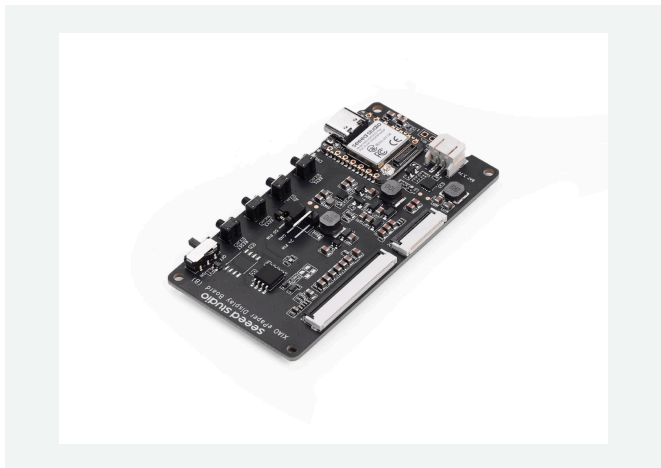
04 **User-Friendly Buttons**

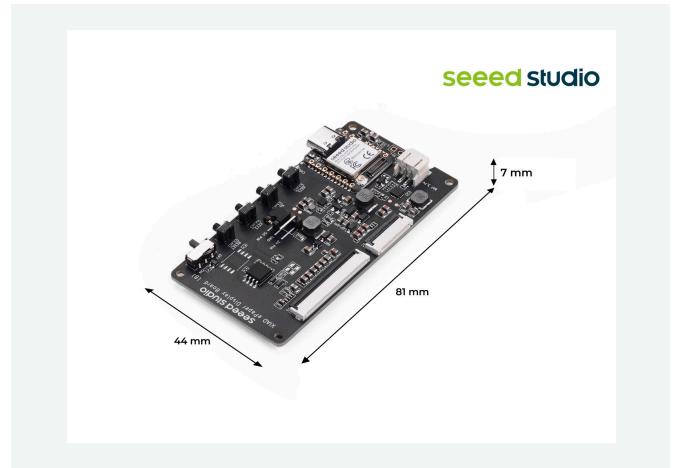
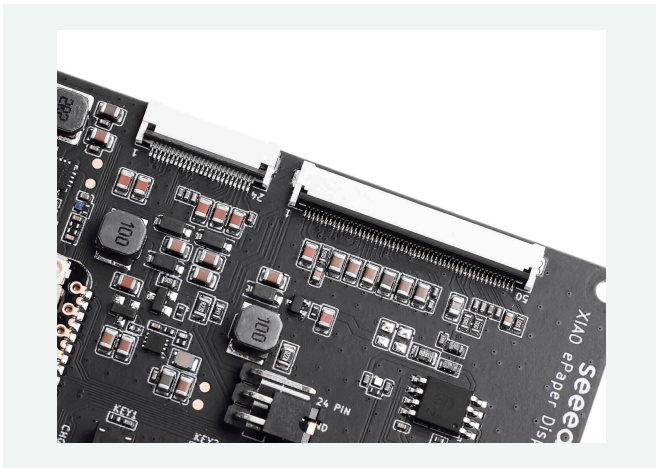
Includes 1 reset button and 3 user-programmable buttons, offering flexibility for project acceleration and customizable functions.

05 **No-Code UI Design & Deployment with SenseCraft HMI**

Design and deploy personalized dashboards effortlessly with SenseCraft HMI, our new AI-powered no-code platform. Create your UI through simple drag-and-drop elements, choose from our rich templates, or let AI help you. Connect real-time data from web APIs, then deploy your finished dashboard to epaper display with just a few clicks. From design to data configuration to deployment, everything happens seamlessly on one single platform.

Product Gallery

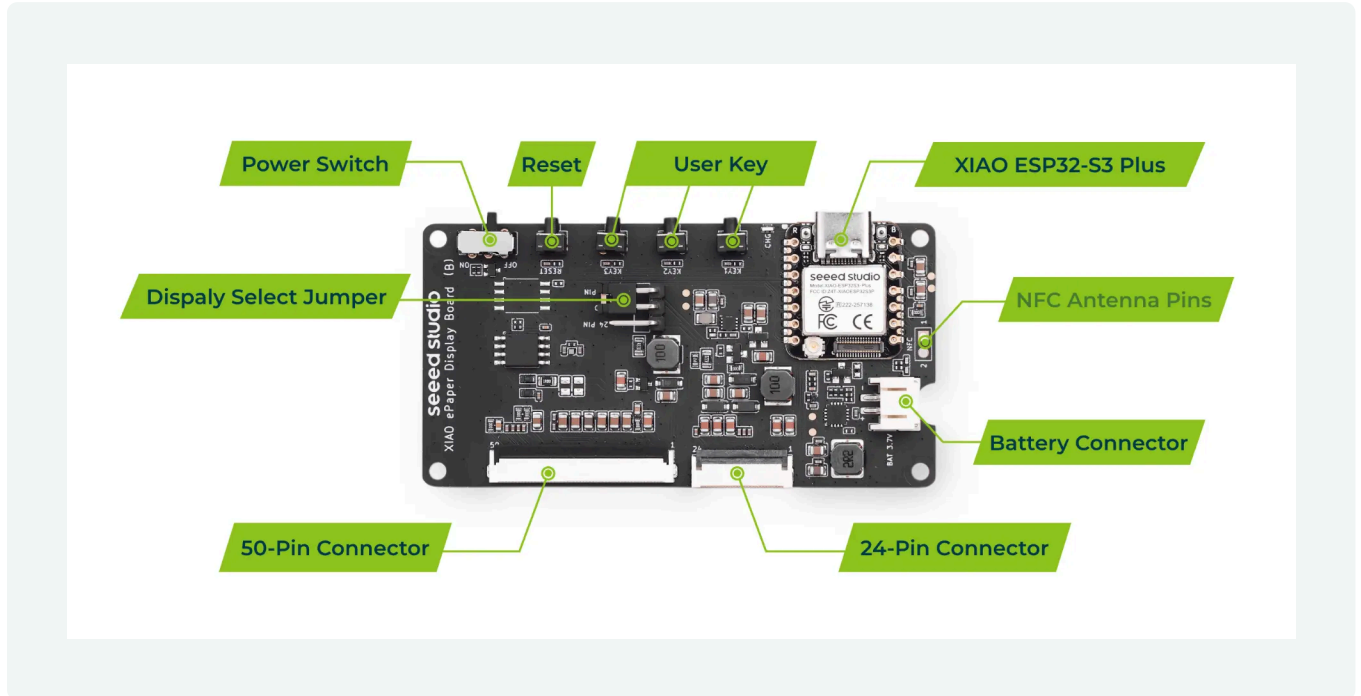




Specification

XIAO ESP32-S3 Plus	
Parameter	Description
onBoard MCU	
Compatible ePaper Displays	-24 Pin ePaper-50Pin epaper
ePaper Connector	-FPC 24 Pin, 0.5mm-FCP 50 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

- **Smart Home Dashboard:** Display real-time information such as weather updates, calendar events, and notifications from various smart home devices.
- **Energy Monitoring:** Show energy consumption data from smart meters, helping homeowners track and manage their energy usage more efficiently.
- **Security Alerts:** Display alerts and notifications about security events, such as motion detection or door/window sensor activation.
- **Digital Photo Frame:** Create a WiFi-enabled digital photo frame that can display images from your smart home network.

Product					
Processor	XIAO ESP32-S3 Plus	XIAO ESP32-S3 Plus	XIAO nRF52840 Plus	N/A(CompatiblewithXIAO Series)	
CompatibleDisplays		24 Pin ePaper50Pin ePaper	24 Pin ePaper	24 Pin ePaper (NOT for 2.9" BWRY & 7.5" BW)	
Battery Connector	JST 2.0mm	JST 2.0mm	JST 2.0mm	/	
Battery Power ON/OFF	√	√	√	/	
Button	1x Reset3x User	1x Reset3x User	/		
Extension IO Port	/	/	√		
SenseCraft HMI	√	√	/	/	

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		√	√
		250x122			√
		212x104		√	
		296x128			
		296x128		√	√
		296x128			√
		400x300		√	
		800x480			√
		648x480		√	

		800x480		√	
		800x480		√	√
		1404*1872		√	√
		1600x1200			√

Part List

XIAO ePaper Display Board EE04	×1
24PinAdapter and 24Pin FFC Extension Cable	×1
50PinAdapter and 50Pin FFC Extension Cable	×1
2.4GHz FPC Antenna (2.9dBi)	×1

Compliance & Logistics

HSCODE	8543909000
USHSCODE	8543903500
EUHSCODE	8543709099
COO	CHINA

Logistics	Value
ECCN	EAR99
HSCODE	8543909000
USHSCODE	8543903500
EUHSCODE	8543709099
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/XIAO-ePaper-Display-Board-EE04-p-6560.html>
- [Wiki-XIAO ePaperDisplayBoardEE04 Resources](#)
- [PCN-ePaper Display Board Series Upgrade v1.0.pdf](#)

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