

INDUSTRIAL PRODUCT DATASHEET

XIAO 7.5" ePaper Panel

XIAO 7.5" ePaper Panel: a 7.5" 800×480 monochrome e-Ink home automation display with ESPHome Ready-Made, Home Assistant, TRMNL, and Arduino support, powered by a 2000mAh Li-ion battery for up to 3 months on a charge.

SKU

114993635

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PRICE

\$75.00(Excl. VAT)



Overview



The XIAO 7.5" ePaper Panel is a 7.5-inch monochrome e-Ink display with 800×480 resolution, powered by a 3.7V 2000mAh rechargeable Li-ion battery for up to 3 months of operation in deep sleep mode (6-hour refresh interval). It supports ESPHome Ready-Made zero-code setup, native Home Assistant integration, TRMNL compatibility, and Arduino IDE development, housed in a white 3D-printed frame with a retractable stand.

Key Features

Note:

- Looking for a solid-build ESP32-S3 ePaper display? Check out our new [reTerminal E1001 7.5" Monochrome ePaper Display](#) that comes with a metal enclosure and international certifications.
- Early Build provides beta products (featuring 3D-printed cases) and evolving software before final release. We welcome your feedback and suggestions to shape the product's evolution. Enjoy exploring!

ESPHome Ready-Made Project: Zero-Code Setup!

Seeed Studio is proud to have joined the ESPHome Ready-Made Project. No YAML or coding required—flash your firmware directly via web browser for instant integration.

Featured Devices:

- [XIAO Smart IR Mate](#): Your ultimate Home Assistant infrared hub.
- [XIAO W5500 Ethernet Adapter V1.2](#): Reliable PoE Bluetooth Proxy for Seamless Connectivity.

Experience seamless setup now at the [ESPHome Ready-Made Projects website](#)!

[Explore landing page](#) to discover more plug-and-play, Home Assistant-compatible devices designed for faster deployment and simplified integration.

• Native Home Assistant Integration

This XIAO Gadget is compatible with Home Assistant, enabling it to function as a physical display for your Home Assistant Lovelace dashboard.

• Compatible with TRMNL (TRMNL Access Required)

It also compatible with TRMNL, boasting **over 80 plugins** to meet basic daily life and work needs. For example, Calendar, Shopify and Github plugins and so on. It offers a no-code experience, making it super easy for even beginners to get started.

• 7.5" e-Ink Display for Home Automation

The XIAO ePaper Panel features a 7.5" monochrome (black and white) e-Ink display with 800×480 resolution, capable of presenting comprehensive information simultaneously. From sensor data to weather forecasts and full-page calendars, all your smart home information is available at a glance.

• Energy-Efficient Design with Low-Power Consumption

Powered by a 3.7V 2000mAh rechargeable Li-ion battery, it operates for up to 3 months on a single charge in deep sleep mode (6-hour refresh interval). The glare-free e-Ink display ensures clear readability in any lighting condition while reducing eye strain.

• Arduino Development Support

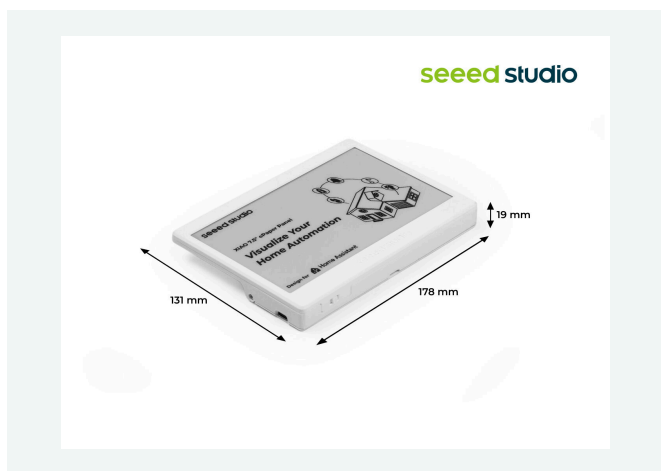
As an open-source device with full Arduino IDE compatibility, developers can create custom dashboards using Arduino C programming.

• Elegant Form Factor

Housed in a stylish white 3D-printed frame with a versatile retractable stand, this device can be placed on a desk or mounted on a wall for flexible positioning.

Product Gallery





Specification

Parameter	Description
MCU	XIAO ESP32-C3
Display	7.5-inch Monocolor ePaper Display
Resolution	800x480
Operating Voltage	3.3V to 5V
Battery	2000mAh Rechargeable Li-ion Battery (3-months battery life in deep sleep mode on a single charge)
Enclosure	Dimension: 178 x 131 x 19 mm Material: PLA Color: White Fabrication: 3D Printing
Operating Temperature	-40°C to 85°C
Weight	218g

ePaper Displays in Comparison		reTerminal E1001	reTerminal E1002	XIAO 7.5" ePaper Panel	T R M I N I A L D I S P L A Y K I T
Display	Size	7.5"	7.3"	7.5"	7 . 5 "
	Color	Monochrome	Full-color	Monochrome	M o n o c h r o m e
	Resoluti on	800×480	800×480	800×480	8 0 0 × 4 8 0
	Partial Refresh	✓	✗	✓	✓
	Refresh Rate	2-5s	12-15s	2-5s	2 - 5 s
MCU		ESP32-S3	ESP32-S3	ESP32-C3	E S P 3 2 - S 3
Enclosure		Metal	Metal	3D Printed PLA	✗
SD Card Support		✓	✓	✗	✗
Battery	Capacity	2000mAh	2000mAh	2000mAh	2 0 0 0 m A h
	Monitori ng	✓	✓	✗	✓
Expansion Interfaces		UART & I2C	UART & I2C	✗	✗

Compatible Software	SenseCraft HMI Home Assistant/ESPHome TRMNL Arduino EEZ Studio	SenseCraft HMI Home Assistant/ESPHome TRMNL Arduino Sqaureline Vision EEZ Studio	Home Assistant/ESPHome TRMNL Arduino	T R M N L S e n s e C r a f t H M I H o m e A s s i s t a n t A r d u i n o
Certifications	FCC/CE/MIC Radio/ROHS	FCC/CE/MIC Radio/ROHS	×	×
MSRP	\$69-\$76.99	\$99-\$109.99	\$65.55-\$72.19	\$ 4 2 . 6 6 - \$ 4 6 . 5 4

Hardware Overview



Part List

XIAO 7.5" ePaper Panel	x1
USB Cable (100 cm, USB Type-A to USB Type-C)	x1

Compliance & Logistics

HSCODE	8543709990
USHSCODE	8524119000
UPC	
EUHSCODE	8543709099
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/XIAO-7-5-ePaper-Panel-p-6416.html>
- [7.5" ePaper Panel Wiki](#)
- [Enclosure for your custom re-mix](#)
- [ePaper_Driver_Board_for_XIAO_SCH](#)

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