TRMNL 7.5" DIY E-ink Dashboard Kit

seeedstudio.com/TRMNL-7-5-Inch-OG-DIY-Kit-p-6481.html

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USD $44.90

10+: $44.50

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Feature

Specification

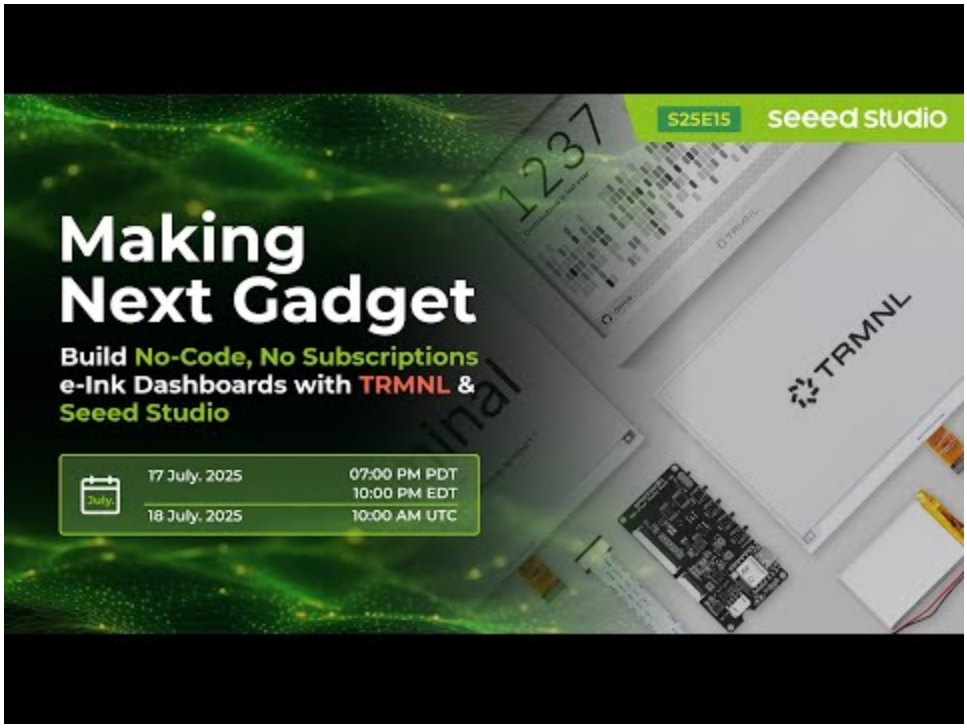
Hardware Overview

Documents

ECCN/HTS

Part List

Feature



Watch Video At: https://youtu.be/MZ8HMSGqBWI

Note:

- This open source kit is sold without an enclosure. All pictures showing enclosures are for demonstration purposes only !
- The TRMNL 7.5" (OG) DIY Kit requires a TRMNL BYOD license ($50) to access over 300+ ready-to-deploy plugins for building your TRMNL dashboard. Purchase your BYOD license here.

Compatible with TRMNL (TRMNL Access Required)

This kit is specifically designed as the official TRMNL BYOD kit to build the TRMNL 7.5" OG device from scratch. With the TRMNL BYOD Access, you can boast over 375 ready-to-deploy plugins and choose from 8 layouts to build the perfect dashboards for your daily and even commercial applications without coding. 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 Your Custom Dashboard

This kit 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 the information that you need is available at a glance. Moreoever, the glare-free e-Ink display ensures clear readability in any lighting condition while reducing eye strain.

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).

Home Assistant and Arduino IDE Compatibility for Your Applications

This kit comes with a XIAO ESP32-S3 Plus based XIAO ePaper Display Dev Board, which is compatible with ESPHome for native Home Assistant integration, making it a perfect e-ink screen for your Home Assistant Lovelace dashboard to visulize home automations. Moreoever, as an open-source kit with full Arduino IDE compatibility, developers can create custom dashboards using Arduino C programming.

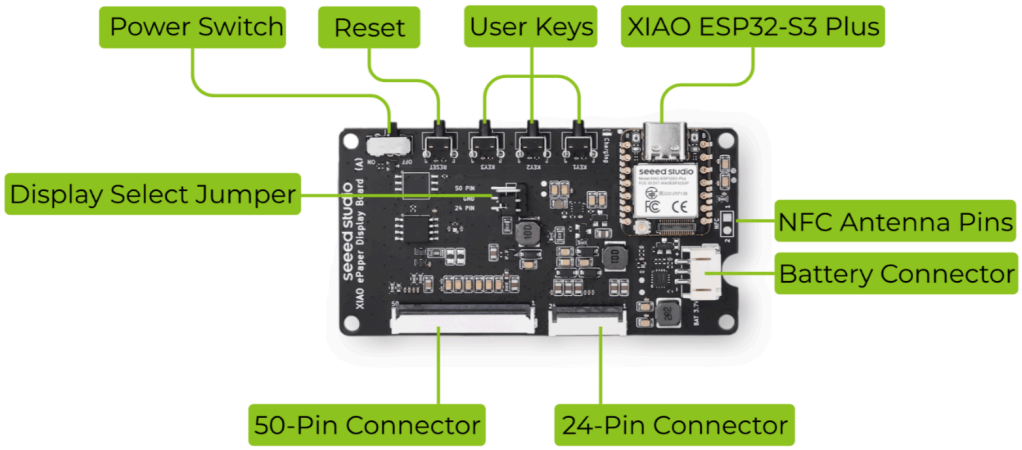
Open Source Enclosures for Your Re-Mix

This kit doesn't include the enclosure, but we provide three beautiful enclosure designs, available open-source on Printables, Thingiverse, and Maker World. Both combine aesthetics and functionality to enhance your project's appeal.

Specification

Parameter	Description
MCU	XIAO ePaper Display Dev Board with XIAO ESP32-S3 Plus onboard
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)
Operating Temperature	-40°C to 85°C
Enclosure	**Not included.** But they are open sourced on Printables and Thingiverse for your custom remix.

Hardware Overview



ECCN/HTS

HSCODE	8543709990
USHSCODE	8524119000
UPC	
EUHSCODE	8543709099
COO	CHINA

Part List

XIAO ePaper Display Dev Board with XIAO ESP32-S3 Plus Onboard	1
7.5-inch Monocolor ePaper Display (800x480 Pixels)	1
FPC Extension Cable (10 cm)	1
FPC Connector	1
2000mAh Rechargeable Li-ion Battery	1