

100073581 | reTerminal E1001 Monochrome ePaper Display

SKU: 100073581

Product Overview

reTerminal E1001 is a 7.5 inch open-source monochrome ePaper display with up to 3-month battery life. Powered by ESP32-S3, it supports SenseCraft HMI no-code UI platform for dashboard creation and also supports Home Assistant, TRMNL E-ink dashboard, Arduino, and ESP-IDF for development. This device is suitable for smart home dashboard visualization, office displays, or educational projects.

Features

Beautiful, Ready-to-Use ePaper Display The reTerminal E1001 comes fully assembled as an HMI (Human Machine Interface) in a sleek, durable enclosure, featuring an integrated 7.5Inch800×480 monochrome ePaper display. Powered by Espressif's ESP32-S3, it delivers stunning visual performance straight out of the box-no extra setup required.

Ultra-Low Power with 3-Month Battery Life Equipped with a built-in 2000mAh battery and engineered for maximum power efficiency, the reTerminal E1001 runs for up to 3 months on a single charge in deep sleep mode (6-hour refresh interval). Place it anywhere-on your desk, mounted on a wall, or in any space-without worrying about frequent recharging.

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 onboard sensors or web APIs, then deploy your finished dashboard to reTerminal E1001/E1002 display with just a few clicks. From design to data configuration to deployment, everything happens seamlessly on one single platform.

Works with Popular Software Platforms Enjoy seamless compatibility with multiple software ecosystems. Create no-code TRMNL Dashboards with 300+ plugins for everyday and work data, connect instantly to Home Assistant via ESPHome firmware, or develop your customized applications using Arduino, PlatformIO or ESP32-IDF environment.

Flexible Hardware & Software Customization Leveraging Seeed Studio's extensive OEM/ODM expertise, the reTerminal E1001/E1002 can be customized to fit your exact needs. Whether you require specific sensors, modified I/O configurations, or tailored UI designs, it's built to adapt-ideal for industrial, educational, or personal use.

Product Image



Product image

Specifications

reTerminal E1001

reTerminal E1002

SenseCraft HMI

Product Name		
Processor	ESP32-S3with8MB PSRAM	
Storage	32MBFlash,supportMicroSDcard	
Display	7.5" Monochrome	7.3" FullColor
Resolution	800x480Pixels	
Micro SD Card	Maximum support 32GB SD card, FAT32 format	
Wireless Connectivity	2.4GHz 802.11 b/g/n Wi-Fi, Bluetooth 5.0	
Sensors	Temperature,humiditysensors	
Microphone	Reservedforvoiceinteractionapli cation	
Buzzer	Buzzerforsoundalert	
Battery	2000mAh	
Power Input	USB-C5V/1A	

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Product Name		
Software	DefaultfirmwaresupportSenseCr aft HMI()	
SupportESPHomefirmwaref orHome Assistant		
SupportArduino/PlatformIO/ ESP-IDFdevelopmentplatfor m		
WorkingTemperature	0-40degC	
Dimensions	176mm120mm53mm(With Stand)/17mm(Without Stand)	

ePaper Device Comparison

reTerminal E1001

reTerminal E1002

XIAO 7.5" ePaper Panel

TRMNL 7.5" (OG) DIY Kit

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

TRMNL

SenseCraft HMI

Home Assistant

Arduino

ePaper Displays in Comparison					
Display	Size	7.5"	7.3"	7.5"	7.5"
Color	Monochrome	Full-color	Monochrom e	Monochrom e	
Resolution	800×480	800×480	800×480	800×480	
Partial Refresh	■	■	■	■	

Seeed Technology Co.,Ltd.

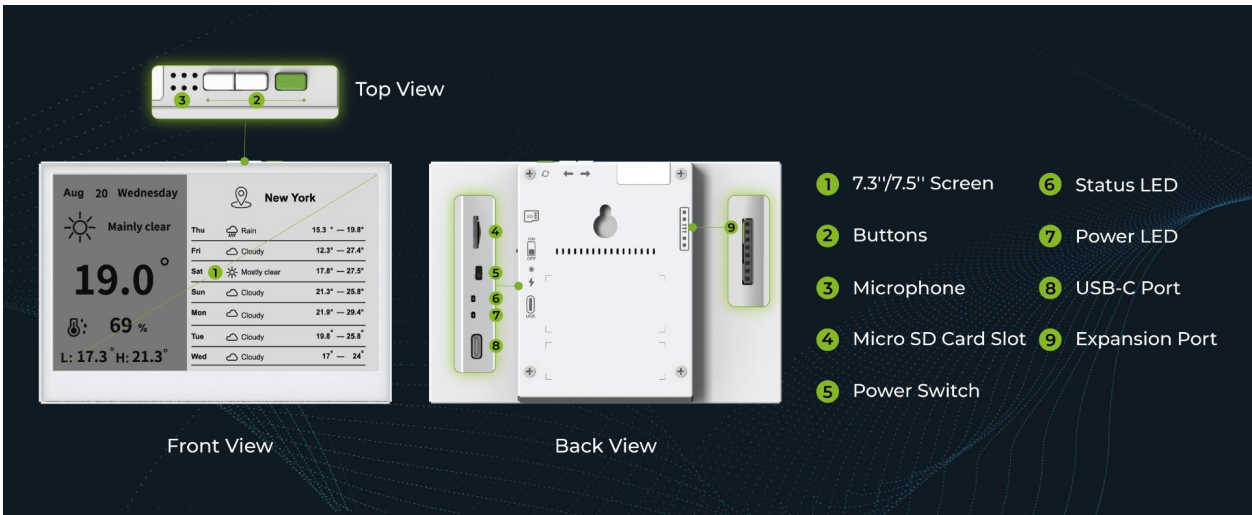
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ePaper Displays in Comparison					
Refresh Rate	2-5s	12-15s	2-5s	2-5s	
MCU	ESP32-S3	ESP32-S3	ESP32-C3	ESP32-S3	
Enclosure	Metal	Metal	3DPrintedP LA	■	
SD Card Support	■	■	■	■	
Battery	Capacity	2000mAh	2000mAh	2000mAh	2000mAh
Monitoring	■	■	■	■	
Expansion Interfaces	UART & I2C	UART & I2C	■	■	
Compatible Software					
Certifications	FCC/CE/MIC Radio/ROHS	FCC/CE/MICRadio/ROHS	■	■	
MSRP	\$69-\$76.99	\$99-\$109.99	\$65.55-\$72.19	\$42.66-\$46.54	

Hardware Overview



Hardware overview image