

INDUSTRIAL PRODUCT DATASHEET

# reTerminal E1002 Full-color ePaper Display

re Terminal E 1002 is a 7.3 inch open-source fullcolor Paper display with upto 3-month battery life. Powered by ESP 32-S 3, itnatively supportsour Sense Craft HMI no-code UI platformfor effortless dashboard creation, while supporting Home Assistant, TRMNL E-ink dashboard, Arduino and ESP-IDF for further development. Withthe EInk®Spectra™ 6 full-color e Paper

SKU

100017057

UPDATED

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PRICE

\$109.00(Excl. VAT)



# Overview

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Figure 1. 104991003 ReTerminal E1002 Epaper Display

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## Key Features

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01

**Beautiful, Ready-to-Use E Ink® Spectra™6 Color ePaper Display**

02

**Ultra-Low Power with 3-Month Battery Life**

03

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

04

**Works with Popular Software Platforms**

05

**Flexible Hardware & Software Customization**

# Product Gallery



Figure 1. Hqdefault 168

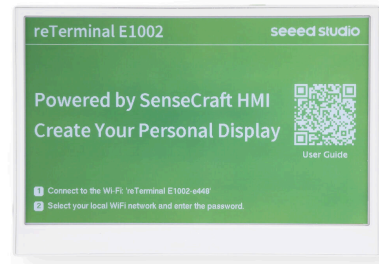


Figure 2. ReTerminal E1002 Epaper Display



Figure 3. ReTerminal E1002 Epaper Display



Figure 4. ReTerminal E1002 Epaper Display



Figure 5. ReTerminal E1002 Epaper Display



Figure 6. ReTerminal E1002 Epaper Display



Figure 7. ReTerminal E1002 Epaper Display

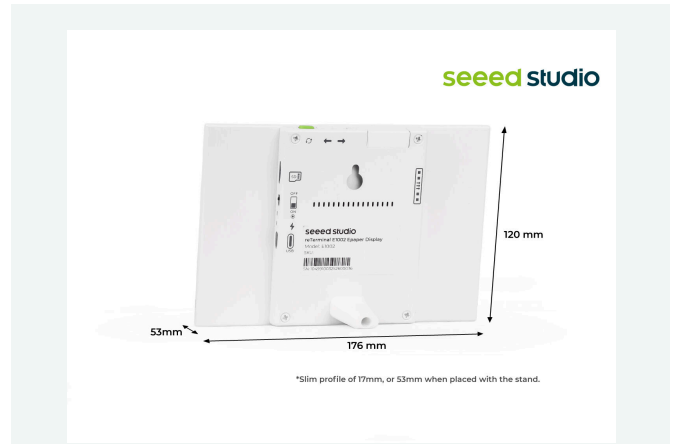


Figure 8. ReTerminal E1002 Epaper Display

# Specification

## reTerminal E1001

Product Name	reTerminal E1001	reTerminal E1002
Processor	ESP32-S3 with 8MB PSRAM	
Storage	32MB Flash, support Micro SD card	
Display	7.5" Monochrome	7.3" Full Color
Resolution	800x480 Pixels	
Micro SD Card	Maximum support 32GB SD card, FAT32 format	
Wireless Connectivity	2.4GHz 802.11 b/g/n Wi-Fi, Bluetooth 5.0	
Sensor	Temperature, humidity sensors	
Microphone	Reserved for voice interaction application	
Buzzer	Buzzer for sound alert	
Battery	2000mAh	
Power Input	USB-C 5V/1A	
Software	Default firmware support SenseCraft HMI()	
Support ESPHome firmware for Home Assistant		
Support Arduino/PlatformIO/ESP-IDF development platform		
Working Temperature	0-40°C	
Dimensions	176mm*120mm*53mm(With Stand)/17mm(Without Stand)	

ePaper Displays in Comparison	reTerminal E1001	reTerminal E1002	XIAO 7.5" ePaper Panel	TRMNL 7.5" (OG) DIY Kit	SenseCraft HMI
Display	Size	7.5"			

Color	Monochrome	Full-color			
Resolution	800×480	800×480			
Partial Refresh	✓	✗			
Refresh Rate	2-5s	12-15s			
MCU	ESP32-S3	ESP32-S3			
Enclosure	Metal	Metal			
SD Card Support	✓	✓			
Battery	Capacity	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			

# Visual Reference

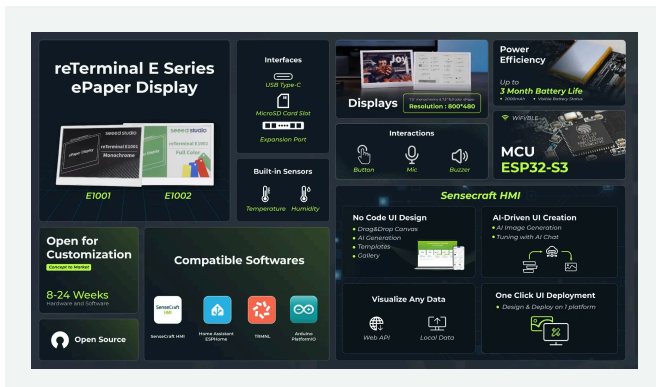


Figure 1. image HA

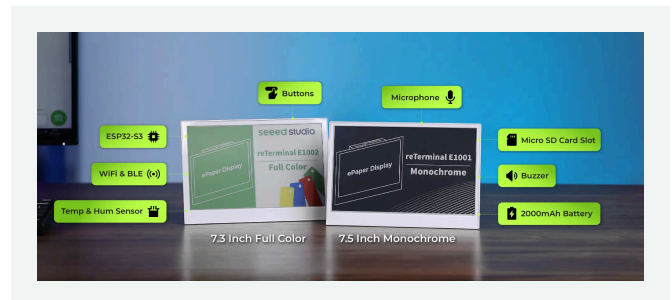


Figure 2. Image Reterminal 2

# Hardware Overview

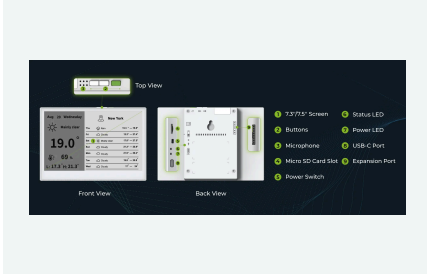


Figure 1. Image Reterminal 5

# Applications

**Desktop Personal Assistants :** Show colorful pictures or photos, track calendars, notifications, weather, or news as a stylish, energy-efficient alternative to tablets.

**Home Automation Dashboards :** Display real-time smart home data like temperature, humidity, and air quality via Home Assistant.

**Smart Office Displays :** Show meeting room availability, office schedules, or directional guidance in low-power, always-on ePaper displays.

**Retail & Public Information Displays :** Low-power ePaper signs for menus, schedules, or occupancy indicators with long battery life.

**Education & Rapid Prototyping :** An ideal platform for developers and students to learn IoT, embedded systems, and no-code UI design, while quickly prototyping and testing sensors, modules, or custom dashboards.

# Part List

reTerminal E1002 ePaper Display	X1
USB Type-C cable	X1
Display stand with screw	X1
Screw driver	X1

# Compliance & Logistics

<b>HSCODE</b>	8543709990
<b>USHSCODE</b>	8524119000
<b>UPC</b>	
<b>EUHSCODE</b>	8471707000
<b>COO</b>	CHINA

<b>CertificationInfo</b>	<b>links</b>
CE	<a href="#">CE_link</a>
EUDOC	<a href="#">EUDOC_link</a>
FCC	<a href="#">FCC_link</a>
PSE	<a href="#">PSE_link</a>
ROHS	<a href="#">ROHS_link</a>
TELEC	<a href="#">TELEC_link</a>
TRANSPORT_AIR	<a href="#">TRANSPORT_AIR_link</a>
TRANSPORT_SEA	<a href="#">TRANSPORT_SEA_link</a>
UKDOC	<a href="#">UKDOC_link</a>

<b>Logistics</b>	<b>Value</b>
ECCN	EAR99
HSCODE	8543709990
USHSCODE	8524119000
EUHSCODE	8471707000
COO	CHINA

# Resource Links

- <https://www.seedstudio.com/reTerminal-E1002-p-6533.html>
- [reTerminal E Series ePaper Display](#)
- [reTerminal MIC Radio Certificate](#)
- [reTerminal E1002 FCC Certificate](#)
- [reTerminal E1002 CE Certificate](#)
- [reTerminal E1002 ROHS Certificate](#)

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