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INDUSTRIAL PRODUCT DATASHEET

reTerminal E1003 ePaper Display +Frame Bundle

The reTerminal E1003 ePaper Display +Frame Bundle combines a 10.3-inch monochrome ePaper display and aluminum frame with 3-second full refresh and 6-month battery life for smart home dashboards.

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Overview



The reTerminal E1003 ePaper Display +Frame Bundle features a 10.3'' monochrome ePaper device with a premium black aluminum frame, delivering a clean, gallery-style appearance ideal for smart home dashboards and digital photo frames. It provides a 3-second full refresh via integrated T-CON controller, 16-level grayscale with 1404 × 1872 resolution, and up to 6 months battery life, enabling cable-free deployment with SenseCraft HMI and ESPHome/Home Assistant compatibility.

Key Features

Note:

- Compatible with ESPHome and Home Assistant, making it ideal for building a touch-enabled smart home dashboard.

- **Elegant Framed Design for a More Refined Display Experience**

The kit includes a 10.3'' monochrome ePaper device, reTerminal E1003, paired with a premium black aluminum frame, giving your display a clean, gallery-style appearance that fits naturally into any environment. Whether used as a smart home control panel or a digital photo frame, the framed design enhances both aesthetics and usability, making it feel like a seamless part of your living space.

- **3-Second Full Refresh for Faster ePaper Response**

With an integrated T-CON timing controller, it enables full-display refresh in just 3 seconds, significantly improving responsiveness compared to typical ePaper update performance. It's ideal for smart home dashboards, control panels, and dynamic status displays that require faster visual feedback with minimal delay.

- **Build Interactive Interfaces Easily with SenseCraft HMI and Touch Support**

The 10.3-inch ePaper display with 1404 × 1872 resolution and 16-level grayscale support delivers richer visual detail compared to typical monochrome ePaper panels. Whether showing dashboards, UI layouts, or data visualizations, it provides clearer structure, improved readability, and more flexibility for information-rich interfaces.

- **Crisp Visuals with 16-Level Grayscale and High-Resolution ePaper Display**

The 10.3-inch ePaper display with 1404 × 1872 resolution and 16-level grayscale support delivers richer visual detail compared to typical monochrome ePaper panels. Whether showing dashboards, UI layouts, or data visualizations, it provides clearer structure, improved readability, and more flexibility for information-rich interfaces.

- **6-Month Battery Life for Truly Cable-Free Placement**

Equipped with a built-in 3000mAh battery, it runs up to 6 months on a single charge in the low power mode under a once-per-day refresh scenario. With no wiring required, it can be easily deployed on walls, desks, or anywhere dashboards and control panels are needed.

Product Gallery











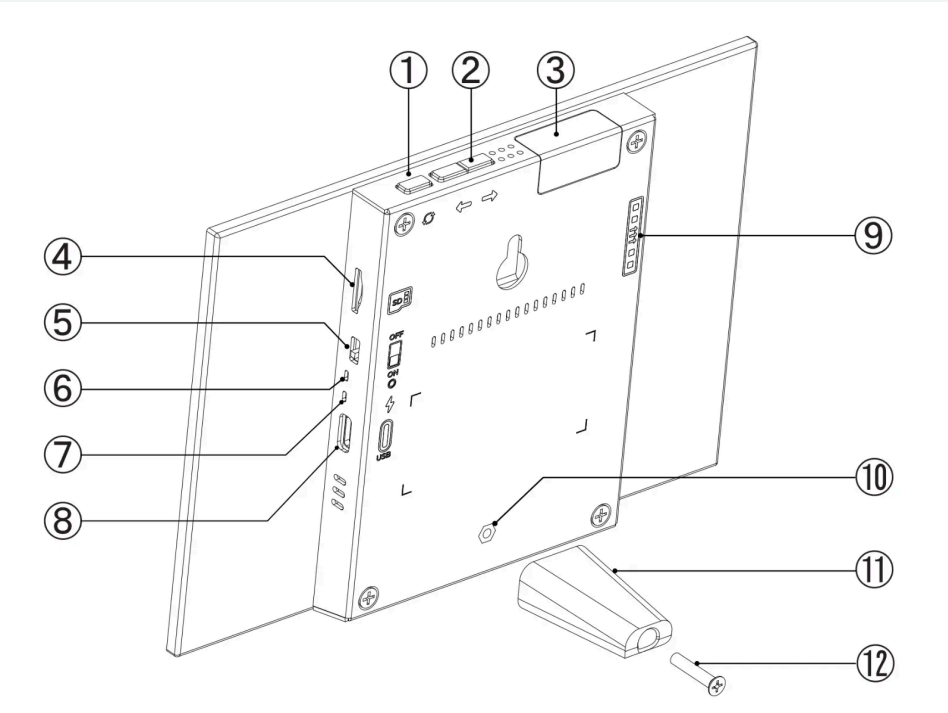


Specification

Product Name	reTerminal E1003
Processor	ESP32-S3 with 8MB PSRAM
Storage	32MB Flash, support Micro SD card

Display	10.3" Monochrome/ 16-level Grayscale
Resolution	1404x1872 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	3000mAh
Power Input	USB-C 5V/1A
Software	Default firmware support SenseCraft HMI(SenseCraft HMI)
	Support Arduino/PlatformIO development platform
Working Temperature	0-40°C
Dimensions	224mm*187mm*18.6mm

Hardware Overview



Applications

- **Home Automation Dashboards:** Display real-time smart home data such as temperature, humidity, air quality, and device status on a low-power, always-on ePaper interface designed for seamless wall-mounted deployment.
- **Low-powerePaperPhoto Frame:** Upload your photos in one click with SenseCraft HMI and enjoy ultra-low-power image display without worrying about battery life.
- **Smart Office Displays:** Show meeting room availability, office schedules, or directional guidance in low-power, always-on ePaper displays.
- **Retail & Public Information Displays:** Deploy the device as a low-power digital signage solution for menus, schedules, room occupancy indicators, or service information in retail stores and public spaces.

Resource Links

- https://www.seeedstudio.com/reTerminal-E1003-frame-bundle.html
- Wiki-reTerminal E1003 Resources

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