

INDUSTRIAL PRODUCT DATASHEET

reTerminal DM - 10.1" HMI | CM4104064 | Raspberry Pi Rugged Panel PC | Panel Controller

The reTerminal DM - 10.1" HMI | CM4104064 | Raspberry Pi Rugged Panel PC | Panel Controller is a rugged, IP65-front-panel, Raspberry Pi CM4-powered all-in-one HMI, PLC, panel PC, and gateway with hybrid connectivity and Node-RED...

SKU

100055264

UPDATED

2026-09-23 01:03:40

PRICE

\$499.50(Excl. VAT)



Overview



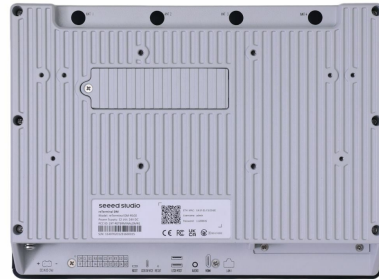
The reTerminal DM - 10.1" HMI | CM4104064 | Raspberry Pi Rugged Panel PC | Panel Controller is a rugged, open-source device powered by Raspberry Pi CM4, featuring an IP65 front panel, -10~50°C operating temperature, and PCIe extensions for customization. It serves as an all-in-one HMI, PLC, panel PC, and gateway with hybrid connectivity (4G LTE, LoRaWAN®, Wi-Fi, BLE, RS485/RS232, CAN bus, Ethernet, USB, HDMI) and Node-RED low-code programming, suitable for energy management, building management, MedTech, construction, transportation, agriculture, retail, logistics, and water management.

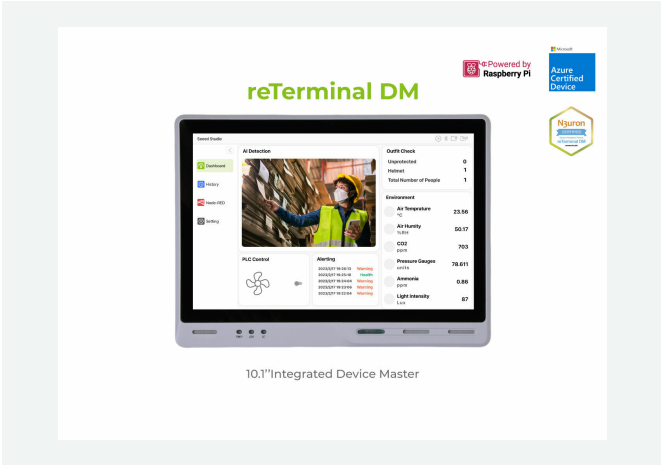
Key Features

- Rugged design for harsh working environment: IP65 front panel, -10~50°C operating temperature
- Open-source design in software and hardware: Powered by Raspberry Pi CM4, easy for customization or derivatives with the PCIe extensions design (flexible for NVME SSD, Dual 1000M Ethernet, Dual USB 3.0, COM Port RS485/232, and more customizations)
- Cost-effective Device Master: HMI, PLC, Panel PC and gateway all-in-one. Perfect for the distributed hub devices
- Low code programming for event-driven applications: Natively integrated Node-RED for flow-based editing and one-click deployment, compatible with all software runs on Raspberry Pi
- Hybrid connectivity: Support 4G LTE, LoRaWAN®, Wi-Fi, BLE, RS485/RS232, CAN bus, 1000M Ethernet, USB, HDMI
- Product Warranty: Two-year warranty

Note: Product Lifetime:at least until 2034 (Based on Raspberry Pi)

Product Gallery

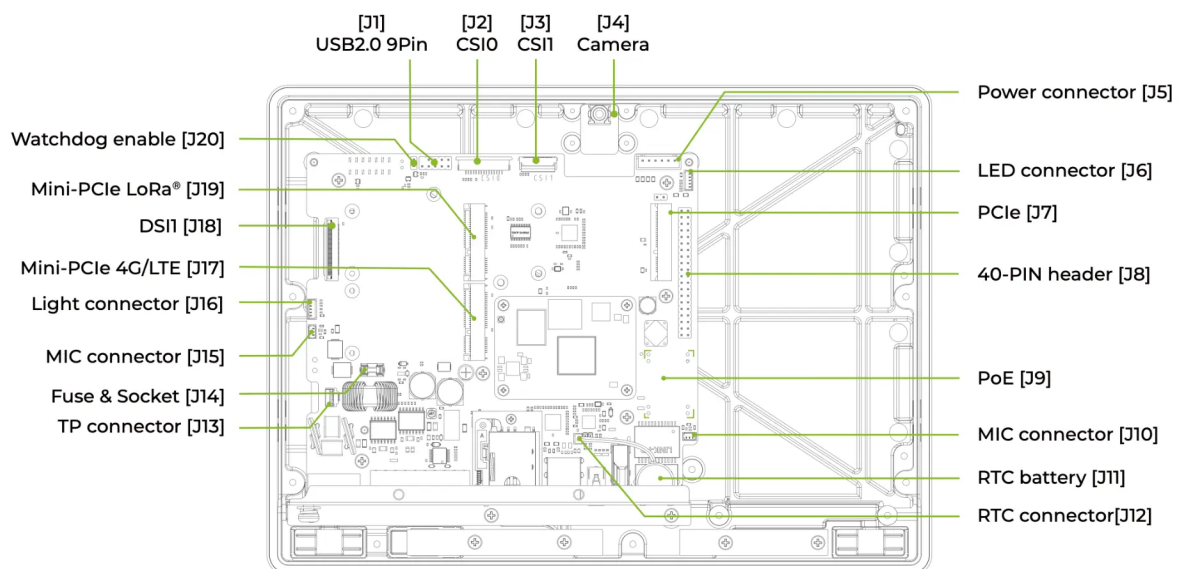




Hardware Overview



- | | | | |
|-------------------|----------------|--------------|---|
| ① Microphone | ⑤ Microphone | ⑨ USB Device | ⑬ 1000M Ethernet |
| ② LED Indicator | ⑥ Power In | ⑩ USB Host | ⑭ PCIe Flexible for Customizations and Commercial Derivatives |
| ③ IR Light Sensor | ⑦ RS485/232/IO | ⑪ Audio | ⑮ 4 Reserved Antennas Ports for Wireless Possibilities |
| ④ Buzzer | ⑧ Boot Switch | ⑫ HDMI | ⑯ SSD Slot |



Applications

- **Energy Management:** Monitor grids, monitor and maintain solar panels.
- **Building Management:** Central control panel for BAS, individual room control panels.
- **MedTech:** Medical device control panel, patient monitoring station.
- **Construction:** BIM, Monitor sites, control heavy machinery.
- **Transportation:** Monitor vehicle health, control ticketing systems (buses, trains).
- **Agriculture:** Control irrigation systems, monitor greenhouse conditions.
- **Retail:** Display digital signage, control self-checkout kiosks.
- **Logistics:** Track inventory movement, manage warehouse operations.
- **Water Management:** Monitor water treatment plants, control water distribution.

Compliance & Logistics

HSCODE	8471419000
USHSCODE	8517180050
UPC	
EUHSCODE	8471707000
COO	

Resource Links

- <https://www.seeedstudio.com/reTerminal-DM-CM4104064-p-6959.html>
- [reTerminal DM Datasheet](#)
- [reTerminal DM User Manual](#)
- [PoE Datasheet](#)
- [reTerminal DM Azure IoT Edge](#)
- [Seeed's Raspberry Pi-based Success Cases](#)
- [reTerminal DM EMC Test Report](#)
- [reterminal DM Vibration and Shock Test Report](#)
- [reTerminal DM CE Certificate](#)
- [reTerminal DM FCC Certificate](#)
- [reTerminal DM Structural Design File.stp](#)
- [reTerminal DM Schematic Design & PCB Design & Gerber Files](#)
- [Seeed Raspberry Pi Flyer](#)

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