

RMC-A3132



Intel Atom® x7000RE DIN-rail PoE Fanless Rugged Edge Computer

- Industrial Grade Amston Lake Processor and Ethernet Controller
- Intel® Twin Lake Processor SKU Available
- 1 x 2.5GbE, 4 x PoE Ports for IoT Devices Connectivity
- 1 x Built-in CAN FD for Vehicle Device Communication
- Dual NVMe SSD Support for NVR Applications
- Built-in Watchdog and Smart Power Management for System Health Monitoring
- Supports DIN-rail and Wall-mount Installation

Traffic and Transportation Surveillance



Dual Nano SIM for Telecom Provider Selection

The system can select a different telecom provider depending on signal quality or other areas.



1 x 2.5GbE for Data Uplink Transmission

High-speed Ethernet for data backup or uplink network expansion



1 x CAN FD for Vehicle Connection

For the data communication of vehicle equipment



UPS : The optional backup battery for emergency power loss situations



Watchdog : Monitoring the system status



4 x PoE for IP Camera and ADAS

For high-resolution image capture or LiDAR connections



9 - 60VDC for 12/24/48V Power System

A wide input range with smart power management for EV or any readily 12V/24V/48V DC power system

Specifications

System

Processor

- Intel Atom® x7835RE Octa-core Processor up to 3.6 GHz
- Intel Atom® x7433RE Quad-core Processor up to 3.4 GHz
- Intel® Twin Lake N355 Core™ 3 Octa-core Processor up to 3.9 GHz
- Intel® Twin Lake N150 Quad-core Processor up to 3.2GHz

Graphics

- Intel® UHD Graphics

Memory

- 1 x SO-DIMM DDR5 up to 16 GB

Security

- 1 x TPM 2.0

Watchdog

- Auto reset for unresponsive system

Interface

Video

- 1 x HDMI® with support for 4K@60Hz as specified in HDMI 2.0b

Audio

- 1 x Line-out, 1 x Mic-in (Optional)

Ethernet

- 1 x 2.5GbE from I226-IT via RJ-45 or M12 X-code for PoE model
- 4 x GbE* from Marvell Ethernet Switch w/ PoE (PSE Class 3: 15W) via RJ-45 or M12 X-code

* Share with 1GbE bandwidth; Power budget: 60W

**Non-PoE model: 2 x 2.5GbE

***M12 X-code cable is not included in the package

CAN

- 1 x CAN FD

USB

- 2 x USB 3.2, 2 x USB 2.0

DIO

- 8 x DI (9-60VDC), 4 x DO (12VDC/100mA)

Serial Port

- 2 x RS-232/422/485 ports, expandable with 4 optional COM ports

Internal Expansion

M.2

- 1 x M.2 3042/3052 Key B for WWAN with dual Nano SIM support
- 1 x M.2 2230 Key E for Wi-Fi/BT

Storage

Type

- 1 x M.2 2280 Key M for NVMe SSD
- 1 x M.2 2280 Key M for NVMe/SATA SSD

Power

Power Input

- DC 9-60V

Power Protection

- OCP, OVP, surge protection, reversed polarity protection

Power Management

- Ignition detection, Smart Power Management

Battery Backup Unit (BBU)

- Backup battery for system power backup

* Non-PoE model only

Software

Operating System

- Windows 11 IoT Enterprise LTSC, Ubuntu 24.04 LTS

Certification / Compliance

- CE, FCC Class A, UKCA, E-Mark, EN 62368-1, EN 50155, EN 45545-2 (R25)

Environmental

Operating Temp.

- x7000RE Processor: -40°C ~ 70°C (-40°F ~ 158°F) with 0.6 m/s airflow
- N-series Processor: -30°C ~ 70°C (-22°F ~ 158°F) with 0.6m/s airflow
- *The x7000RE processor for non-PoE models can operate up to 75°C (167°F), the processor performance may be limited.

** Operating temp. varies by the accessories installed.

Storage Temp.

- -40°C ~ 80°C (-40°F ~ 176°F)

Relative Humidity

- 10% RH – 90% RH (non-condensing)

Vibration

- IEC 60068-2-64, random, 2.5G@5~500Hz, 1hr/axis
- MIL-STD-810H, Method 514.8, Procedure I, Category 4

Shock

- MIL-STD-810H, Method 516.8, Procedure I, trucks and semi-trailers=15G (11ms)

Mechanical

Construction

- Aluminum Alloy with Fanless Design

Antenna

- 6 x SMA connector panel mount hole

Mounting

- DIN rail, Wall

Net Weight

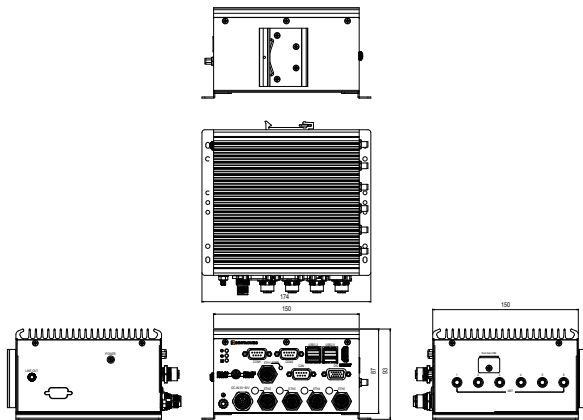
- RJ-45 PoE model: 1.5 kg (3.31 lb)
- M12 PoE model: 1.79 kg (3.95 lb)

Dimensions (L x W x H)

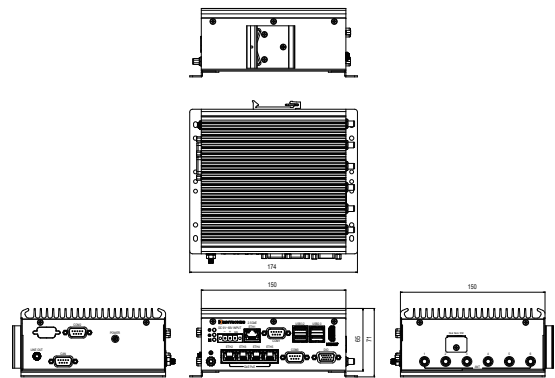
- RJ-45 model: 150 x 150 x 65 mm (5.91 x 5.91 x 2.56 in.)
- M12 PoE model: 150 x 150 x 87 mm (5.91 x 5.91 x 3.43 in.)

Dimensions

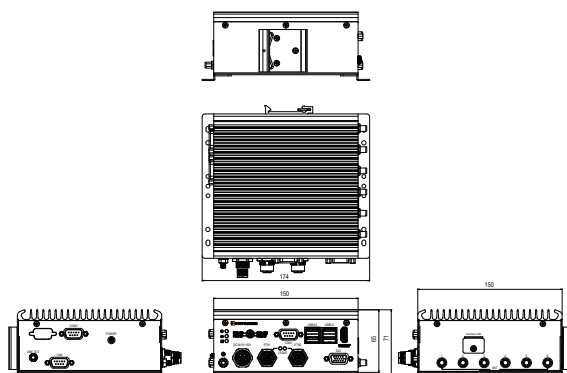
RMC-A3132P-M12X



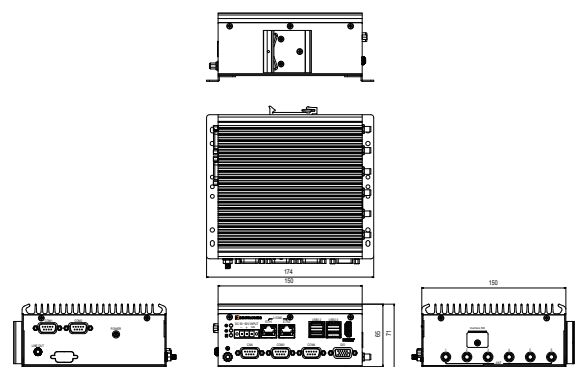
RMC-A3132P



RMC-A3132-D25-M12X



RMC-A3132-D25



Model Name	RJ-45 Model	M12 Model	2.5GbE	GbE	PoE	BBU	Dimension (L x W x H)
RMC-A3132P-M12X-x7835	-	V	1	4	V	-	150 x 150 x 87 mm (6 x 6 x 3.43 in)
RMC-A3132P-M12X-x7433	-	V	1	4	V	-	150 x 150 x 87 mm (6 x 6 x 3.43 in)
RMC-A3132P-x7835	V	-	1	4	V	-	150 x 150 x 65 mm (6 x 6 x 2.56 in)
RMC-A3132P-x7433	V	-	1	4	V	-	150 x 150 x 65 mm (6 x 6 x 2.56 in)
RMC-A3132-D25-M12X-x7835	-	V	2	-	-	V	150 x 150 x 65 mm (6 x 6 x 2.56 in)
RMC-A3132-D25-M12X-N150	-	V	2	-	-	V	150 x 150 x 65 mm (6 x 6 x 2.56 in)
RMC-A3132-D25-N355	V	-	2	-	-	V	150 x 150 x 65 mm (6 x 6 x 2.56 in)
RMC-A3132-D25-N150	V	-	2	-	-	V	150 x 150 x 65 mm (6 x 6 x 2.56 in)

Ordering Information

Model Number	RMC-A3132P	RMC-A3132P-yyyy-zzzzz (yyyy=M12X; zzzzz=x7835=Intel Atom® x7835RE, zzzzz=x7433=Intel Atom® x7433RE)
	RMC-A3132-D25-M12X	RMC-A3132-D25-M12X-zzzzz (zzzzz=x7835=Intel Atom® x7835RE, zzzzz=N150=Intel® Processor N150)
	RMC-A3132-D25	RMC-A3132-D25-zzzzz (zzzzz=N355=Intel® Core™ 3 Processor N355, zzzzz=N150=Intel® Processor N150)
Description	RMC-A3132P	Intel Atom® x7000RE 4-Port PoE M12/RJ-45 DIN rail Rugged Edge Computer
	RMC-A3132-D25-M12X	Intel Atom® x7000RE/Twin Lake Dual 2.5GbE M12 DIN rail Rugged Edge Computer (BBU for Option)
	RMC-A3132-D25	Intel® Twin Lake Processor Dual 2.5GbE RJ-45 Fanless Edge Computer (BBU for Option)
State of Origin	Made in Taiwan	

Optional Accessories

Memory	DDR5 SO-DIMM 16GB
Storage	M.2 2280 NVMe SSD 256GB~2TB
Wi-Fi	M.2 2230 Wi-Fi Module
WWAN	M.2 3042/3052 WWAN Modem
GNSS	M.2 2242 GNSS Module
Battery (BBU)	BAT-2300v2 (Operating Temp. : -20°C ~ 60°C (-4°F ~ 140°F) (only for non PoE model)
Power Adapter	Non-PoE model: DC 12V, 60W PoE model: DC 12V, 120W/160W
Ethernet Cable	M12 X-code to RJ-45 (1M)

All specifications are subject to change without notice.