

VBOX-3132 Series

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

Distributed by:



- 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



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



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

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 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

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 22.04/24.04 LTS

Certification / Compliance

- CE, FCC Class A, UKCA, E-Mark

Environmental

Operating Temp.

- x7000RE Processor : -40°C ~ 70°C (-40°F ~ 158°F) with 0.6 m/s airflow
- Processor N150: -30°C ~ 70°C (-22°F ~ 158°F) with 0.6m/s airflow

* Operating temp. varies by 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

- 1.90kg (4.19 lb)

Dimensions (L x W x H)

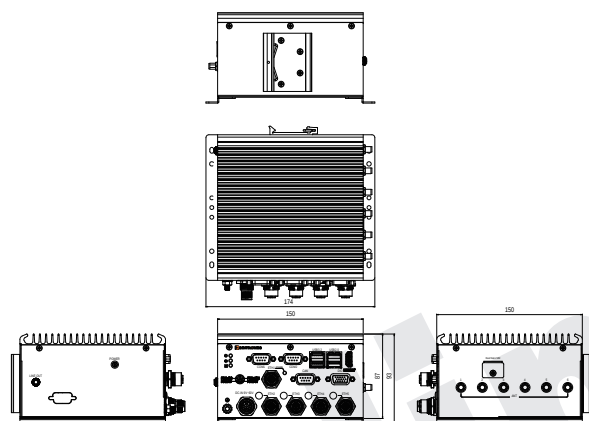
- RJ-45 model: 150 x 150 x 65 mm (5.91 x 5.91 x 2.56 in.)
- M12 PoE model: 150 x 150 x 87 mm (5.91 x 5.91 x 3.43 in.)

Ingress Protection

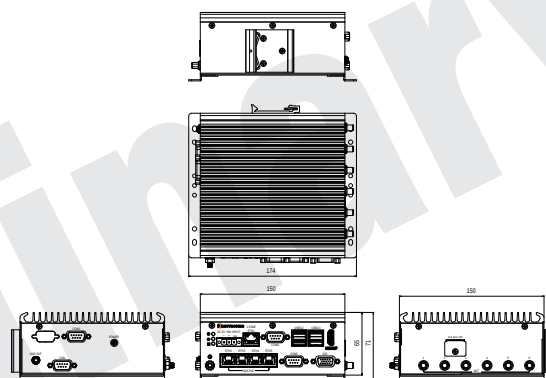
- IP40

Dimensions

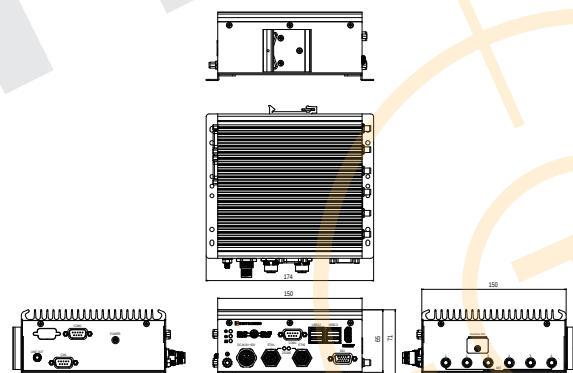
VBOX-3132P-M12X



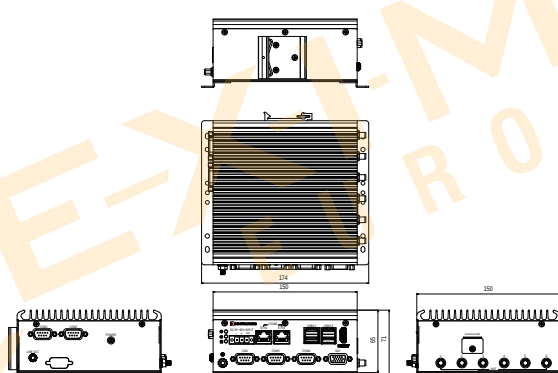
VBOX-3132P



VBOX-3132-D25-M12X



VBOX-3132-D25



Model Name	RJ-45 Interface	M12 Interface	2.5GbE	GbE	4-Port PoE	Option BBU	Dimension (L x W x H)
VBOX-3132P-M12X-A8	—	✓	1	4	✓	—	150 x 150 x 87 mm (6 x 6 x 3.43 in)
VBOX-3132P-M12X-A4	—	✓	1	4	✓	—	150 x 150 x 87 mm (6 x 6 x 3.43 in)
VBOX-3132P-A8	✓	—	1	4	✓	—	150 x 150 x 65 mm (6 x 6 x 2.56 in)
VBOX-3132P-A4	✓	—	1	4	✓	—	150 x 150 x 65 mm (6 x 6 x 2.56 in)
VBOX-3132-D25-M12X-A8	—	✓	2	—	—	✓	150 x 150 x 65 mm (6 x 6 x 2.56 in)
VBOX-3132-D25-M12X-N4	—	✓	2	—	—	✓	150 x 150 x 65 mm (6 x 6 x 2.56 in)
VBOX-3132-D25-N4	✓	—	2	—	—	✓	150 x 150 x 65 mm (6 x 6 x 2.56 in)

Ordering Information

Model Number	VBOX-3132P	VBOX-3132P-yyy-zz (yyy=M12X=M12 interface, yyy = Empty=RJ-45 interface; zz=A8=Intel Atom® x7835RE, zz=A4=Intel Atom® x7433RE)
	VBOX-3132-D25-M12X	VBOX-3132-D25-M12X-zz (zz=A8=Intel Atom® x7835RE, zz=N4=Intel® Processor N150)
	VBOX-3132-D25	VBOX-3132-D25-zz (zz=N4=Intel® Processor N150)
Description	VBOX-3132P	Intel Atom® x7000RE 4-Port PoE M12/RJ-45 DIN rail Rugged Edge Computer
	VBOX-3132-D25-M12X	Intel Atom® x7000RE Dual 2.5GbE M12 DIN rail Rugged Edge Computer (BBU for Option)
	VBOX-3132-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	12VDC, 60W for non-PoE model; 12VDC, 120W/160W for PoE model

All specifications are subject to change without notice.

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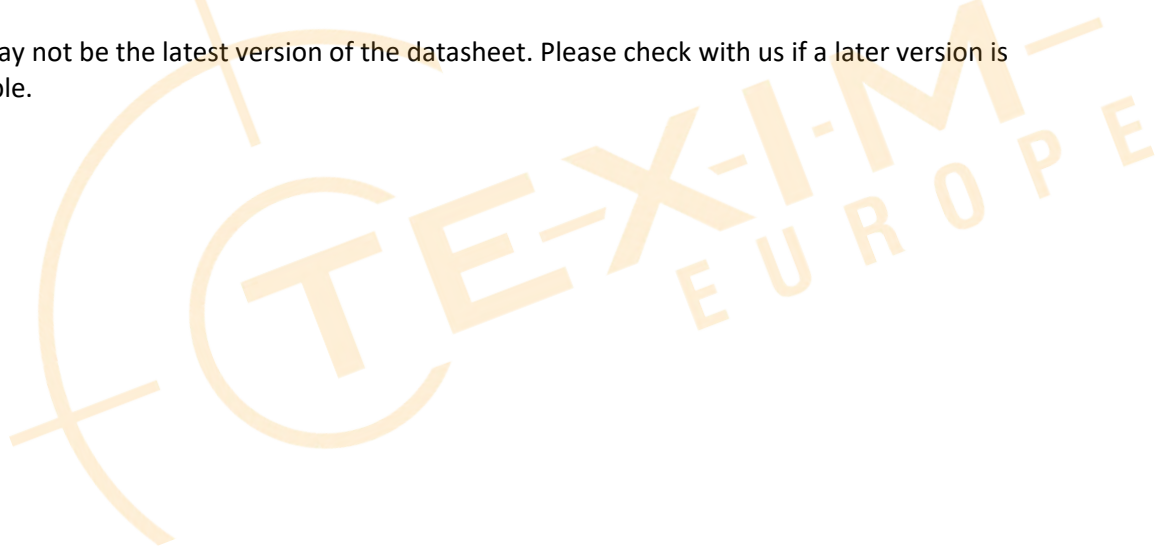
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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