## LINOVISION

### IOT-EC01

Industrial Edge Computing Gateway Integrating Raspberry Pi® CM4 supports RS485 & LoRaWAN & 4G LTE



### **Outstanding Features**

#### **Powerful Performance**

- Equipped with Raspberry Pi® Compute Module 4 to deliver high-performance computing for industrial edge applications.
- Supports additional high-speed storage expansion with 128GB NVMe SSD to meet data-intensive workloads.

#### Multiple Industrial Interfaces

- Includes 3 isolated RS485 serial ports and dual Ethernet ports (1 \* Gigabit with PoE support).
- · Provides high-definition display applications with HDMI 2.0 output.

#### **Versatile Wireless Options**

- Integrated wireless support includes dual-band Wi-Fi (2.4/5GHz) and BLE 5.0.
- Expansion capabilities via SPI allow for LoRaWAN® integration.
- Supports 4G LTE connectivity for remote and mobile applications.

#### Industrial Design

- Rugged enclosure with IP40 protection, suitable for harsh environments.
- Operates in a wide temperature range from -30°C to +70°C (-30°F to +158°F).

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## **Hardware Specifications**

Hardware Platform	
CPU	Raspberry Pi CM4, Quad-core Cortex-A72@1.5 GHz
Operating System	Raspbian, Debian
RAM	8GB
Storage	32GB eMMC
Interface	
Ethernet Port	1 * 10/100/1000 Mbps (Supports PoE*); 1 * 10/100 Mbps IEEE802.3/802.3u
USB	2 * USB-A 2.0 Host; 1 * USB-C 2.0 (for flashing OS)
Serial Port	3 * RS485 (Isolated)
HDMI	1 * HDMI 2.0
SIM Card	1 * Standard SIM Card Slot
SSD Card	1 * M.2 NVMe SSD Slot 2280-M Key
LED	6 * LED indicators
Buzzer	1
Reset Button	1
Wireless Communication	
Wi-Fi	On-chip Wi-Fi 2.4/5.0 GHz
BLE	On-chip BLE 5.0
LoRa®	SPI LoRa®*
4G Cellular	4G LTE*
Standards	
EMC	ESD: EN61000-4-2, Level 3; EFT: EN61000-4-4, Level 2; Surge: EN61000-4-5, Level 2
Certification	CE, FCC, TELEC, ROHS, REACH
Ambient Conditions	
Ingress Protection	IP40
Operating Temperature	-30~70°C
Operating Humidity	10~95% RH
Storage Temperature	-40~80°C

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System	
Power input	AC 12~24 V/DC 9~36 V, 2-pin Terminal Block
PoE(as powered device)	IEEE 802.3af Standard 12.95 W PoE
Power Consumption	Idle: 2.88 W; Full Load: 5.52 W
Power switch	No
Reboot Switch	Yes
Others	
Hardware Watch Dog	1~255s
RTC	High Accuracy RTC
Security	ATECC608A
Heat Dissipation	Fanless
Warranty	2 years
Production Lifetime	Until December 2030

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## Dimension (mm)



Weight:545g (1.20 lb)



## **Package Contents**

