

# EdgeBox-RPi-200

## Raspberry Pi CM4 Based Industrial Edge Computing Controller

A compact PLC, PAC, IIoT gateway all-in-one device with industry-standard protocol.

### Powerful Processor

Powered by Raspberry Pi CM4,  
running up to 1.5GHz, up to 4GB  
RAM and 32GB eMMC.

### Rich IO & Interface

- 2x isolated DI; 2x isolated DO
- 1x isolated RS485; 1x RS232
- 2x USB2.0 A
- 1x M.2 slot support 2242 NVME SSD
- 1x HDMI 2.0 up to 4k@60fps

### Multiple Industrial Protocols

- RS485/RS232
- TCP/IP
- Modbus
- OPC UA
- IEC 61131-3 compliant

### Multiple Communication Capabilities

- Build-in 2.4G/5G WiFi, BLE5.0
- Gigabit Ethernet RJ45 Port
- Mini PCIe Slot support 4G LTE/LoRaWAN®  
Gateway/Zigbee Module
- Support AWS and Azure Cloud services \*

\* LoRaWAN® is a mark used under license from the LoRa Alliance®.

\* The adaptation of CodeSYS, AWS, and Azure Cloud Services will be available early 2023.



## Applications



## Specifications

Specification	Details
CPU	Broadcom BCM2711, Quad-core Cortex-A72 64-bit SoC @ 1.5GHz
Memory	1G/2G/4G RAM optional
Storage	8GB/16GB/32GB eMMC M.2 slot for SSDv
<b>Input/Output</b>	
Digital IO	2 x DI (isolated), 2 x DO (isolated)
<b>Wireless</b>	
WiFi	2.4 GHz, 5.0 GHz IEEE 802.11 b/g/n/ac
Bluetooth	Bluetooth 5.0, BLE
Cellular	Mini-PCIe support 4GLTE
LoRaWAN®	Mini-PCIe support LoRaWAN®
<b>Interfaces</b>	
Ethernet	1 x RJ45 ethernet port support 10/100M/1000M
HDMI	HDMI 2.0 up to 4K@60fps
USB	2 x USB2.0 Type A
RS BUS	1 x RS485 (isolated), 1 x RS232
Antenna	Dual-Band 802.11ac Wi-Fi (optional)
M.2 M Key	1 x M.2 socket with 2242 NVME SSD card support
<b>Extra Features</b>	
Extra Features	Built in UPS with Supercap (optional), RTC, Standalone Watchdog timer, Cryptographic Encryption with ATECC608a Chip (optional)
EMI	IEC 61000-6-2
ESD Protection	4 kV/8 kV with IEC 61000-6-2 IEC61000-4-4
Certifications	CE, FCC, UKCA, TELEC, RoHS
Dimensions	124 (W) x 76 (H) x 35 (T) mm
Power Supply	DC 12V - 36V
Operating Temperature	-20°C to +60°C
Storage Temperature	-20°C to +75 °C
Warranty	2-year warranty
Mounting	DIN Rail, Wall Mount

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If you want to customize features marked as "optional", feel free to email us at [produce@seeed.cc](mailto:produce@seeed.cc).



EdgeBox Series  
Comparison Table

model 1	<b>4GB RAM, 32GB eMMC and 2.4G/5G WiFi</b> SKU 102991559
model 2	<b>4GB RAM, 16GB eMMC and 2.4G/5G WiFi</b> SKU 102110771
model 3	<b>4GB RAM, 8GB eMMC and 2.4G/5G WiFi</b> SKU 102110772
model 4	<b>1GB RAM and 8GB eMMC</b> SKU 102991558

## Software Ecosystem

EdgeBox RPI Series is supported by plentiful autonomous platforms. With massive documentation and open communities, troubleshooting can be efficient and precise.

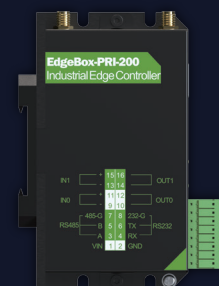


## Customization Service

### Customize Edgebox RPI to Meet Your Specific Requirements

With over 14+ years of experience as an open-source hardware manufacturer and an official Raspberry Pi® design partner, we offer two efficient ways to bring your concept to life swiftly. Choose from customizing our existing Raspberry Pi®-powered devices or utilize our comprehensive one-stop-shop customization service to design from scratch.

Custom Design Inquiry: [edge@seeed.cc](mailto:edge@seeed.cc)



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