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Powered by Raspberry Pi

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 adapatation of CodeSYS, AWS, and Azure Cloud Services will be available early 2023.

Applications

Software-defined PLC (Programmable Logic controller)	IoT Gateway	SCADA
Edge Computing Controller	Industrial Controller	Automation and Control Systems

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
Input/Output		
Digital IO	2 x DI (isolated), 2 x DO (isolated)	
Wireless		
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®	
Interfaces		
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	
Extra Features		
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 freetoemail us at produce@seeed.cc.

**EdgeBox Series
Comparsion Table**

model 1
4GB RAM, **32GB** eMMC and **2.4G/5G** WiFi
SKU 102991559

model 2
4GB RAM, **16GB** eMMC and **2.4G/5G** WiFi
SKU 102110771

model 3
4GB RAM, **8GB** eMMC and **2.4G/5G** WiFi
SKU 102110772

model 4
1GB RAM and **8GB** eMMC
SKU 102991558

Software Ecosystem

EdgeBox RPi Series is supported by plantiful autonomous platforms. With massive documentation and open communities, troubleshooting can be efficient and precise.
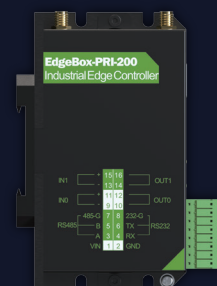
balena   N3uron   IgnitionEDGE by inductive automation   CODESYS

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

Customize Logo	Flash Firmware	Branding and Labeling	Certifications	Add/Remove Functional Modules	Modify I/O Ports	Design Enclosure

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