

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

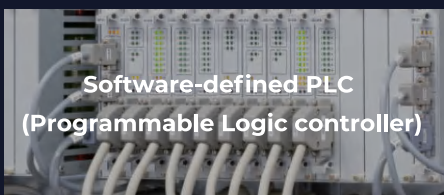
Multiple Communication Capabilities

- 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

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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 SSD
Wireless	2.4 GHz, 5.0 GHz IEEE 802.11 b/g/n/ac Bluetooth 5.0, BLE
Video Interface	HDMI2.0 (up to 4K@60Hz)
Interfaces	1 x RJ45 ethernet port support 10/100M/1000M
	2 x USB 2.0 Port
	1 x HDMI2.0
	2 x isolated DI
	2 x isolated DO
	1 x isolated RS485
	1 x RS232
	1 x mini PCIe slot support 4G LTE module, LoRaWAN® gateway module and Zigbee module
	1 x M.2 socket with 2242 NVME SSD card support
Dimensions	124mm x 76mm x 35mm
Operating Temperature	-20°C to +60°C
Storage Temperature	-20°C to +75°C
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
Additional Features	Built in UPS with Supercap (optional)
	RTC
	Standalone Watchdog timer
	Cryptographic Encryption with ATECC608a Chip (optional)
Power Supply	DC 12V - 36V

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**In Progress*

EdgeBox-RPI-200 Edge Computing Controller

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 2GB RAM, 8GB eMMC and 2.4G/5G WiFi SKU 102110772	model 4 1GB RAM and 8GB eMMC SKU 102991558

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