

## LM Gateway404-B



## Product Features

- ARM926EJ, with a main frequency of 300MHz
- 4 fully isolated RS485 (RS232 multiplexed) interfaces
- 2 x 100M/10M Ethernet interfaces
- Modbus to BACnet converter, supporting nine BACnet object types: AI, AO, AV, BI, BO, BV, MSI, MSO, and MSV.
- BACnet service supports bad value retention or zeroing functionality.
- BACnet service supports COV
- Supports online monitoring of web services.
- Operating temperature: -40 ~ 85°C
- Supports a maximum of 2048 data points



## Single-protocol Modbus to BACnet gateway features

**Protocol Conversion:** The gateway converts Modbus protocol data to BACnet protocol data so that BACnet-enabled systems can manage and monitor it. It can convert Modbus RTU or Modbus TCP requests and responses into BACnet objects and perform the corresponding data transmission.

**Device interconnection:** Seamlessly integrate Modbus devices (such as PLCs, energy meters, sensors, etc.) into the BACnet network to achieve unified monitoring and management.

**Data mapping:** The gateway maps Modbus data to corresponding objects in the BACnet based on user-defined parameters. This ensures that the status and data of Modbus devices are correctly displayed within the BACnet network.

**Modbus data acquisition:** Supports four data areas: 0X, 1X, 3X, and 4X, and supports multiple data types such as bool, bit, bits, int, and float.

**BACnet service:** Supports nine types of BACnet objects: AI, AO, AV, BI, BO, BV, MSI, MSO, and MSV. It supports bad value retention or zeroing and supports COV.

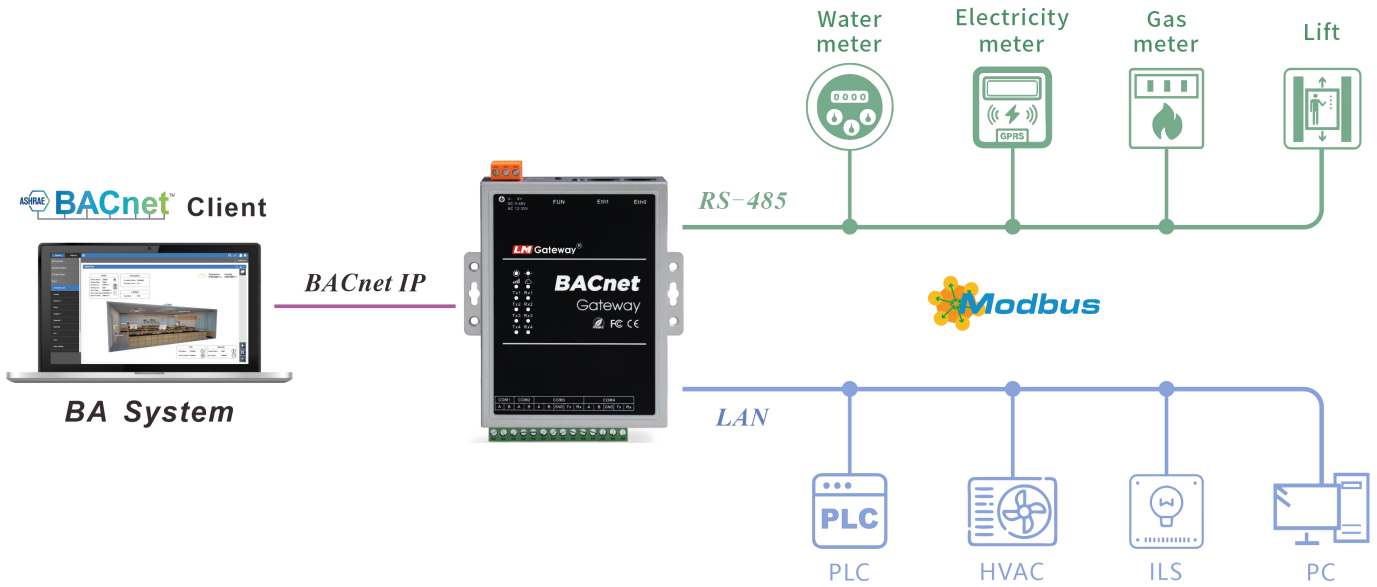
**Real-time data acquisition and monitoring:** The gateway supports real-time data exchange, enabling the BACnet system to acquire data from Modbus devices in real time and perform corresponding monitoring, alarms, and control.

**Web Configuration:** The gateway provides a simple web configuration and monitoring interface, allowing users to easily set up mapping rules for Modbus and BACnet without requiring programming skills.

## Product Specifications

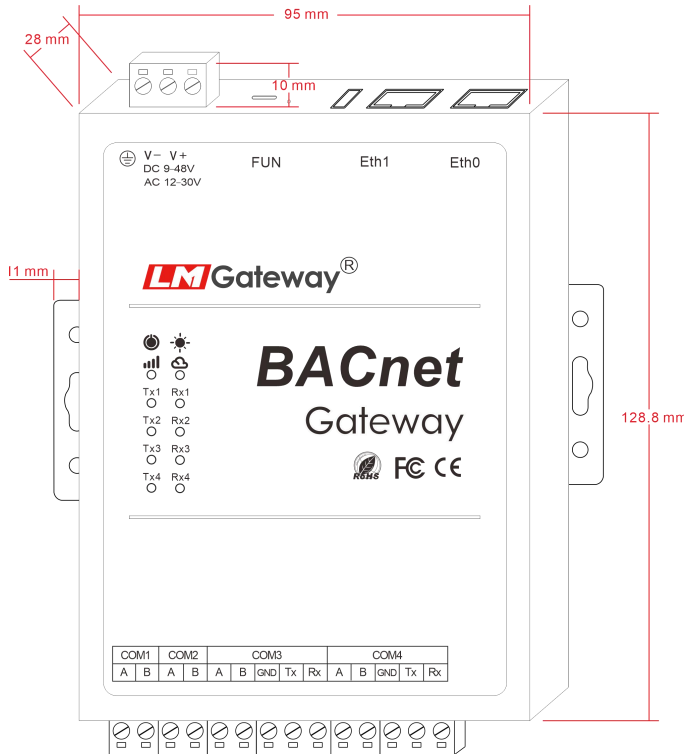
Hardware parameters	Certification	RoHS, CE, FCC Class A
	Memory	512MB DDR3 high-performance memory
	Nand flash	The MLC eMMC board has an onboard 8GB eMMC module.
	Power supply	DC9V ~ 48V / AC12V ~ 30V, supports reverse connection protection, lightning protection, overcurrent protection, etc.
	LED indicator light	POWER, SYS, serial port transmit/receive indicators
	Enclosure protection rating	IP50
	Power consumption	The maximum average power consumption of the entire machine is $\leq 5W$ .
	Installation method	Supports wall mounting and DIN rail back mounting, DIN rail side mounting.
I/O interface	Serial port	4xRS485
	Network port	2xLAN ports
	Power connector	1x3-pin terminal
Environmental parameters	Operating relative humidity	20-90% No condensation
	Relative humidity during storage and transportation	15% - 95% No condensation

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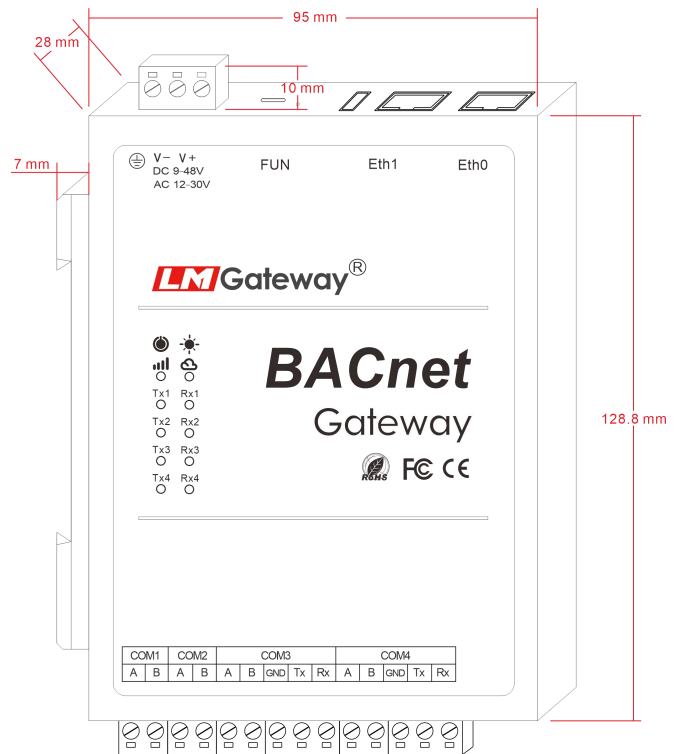


## Gateway dimensions and installation diagram

- Back rail and hanging ear installation



- Side rail installation



### Remark:

How to distinguish the positive and negative terminals of the power supply for gateway accessories: The one marked with a letter is negative, and the one completely black is positive.