

LM Gateway101-B



Product Features

- ARM926EJ, with a main frequency of 300MHz
- 1 x Fully Isolated RS485 (RS232 Multiplexed) Interface
- 1 x 100M/10M Ethernet interface
- 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 256 data points



Single-protocol Modbus to BACnet gateway features

Protocol Conversion: This gateway converts Modbus protocol data to BACnet protocol to support BACnet system management and monitoring. It can convert Modbus RTU or Modbus TCP requests and responses into BACnet objects and perform the corresponding data transmission.

Device interconnection: Through this gateway, users can seamlessly integrate Modbus devices (such as PLCs , energy meters, sensors, etc.) into the BACnet network, thereby achieving unified monitoring and management.

Data mapping: The gateway maps Modbus data to corresponding objects in the BACnet (such as Analog Input , Analog Output , Binary Input , etc.) based on user-defined parameters . This ensures that the status and data of Modbus devices can be correctly displayed in 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 .

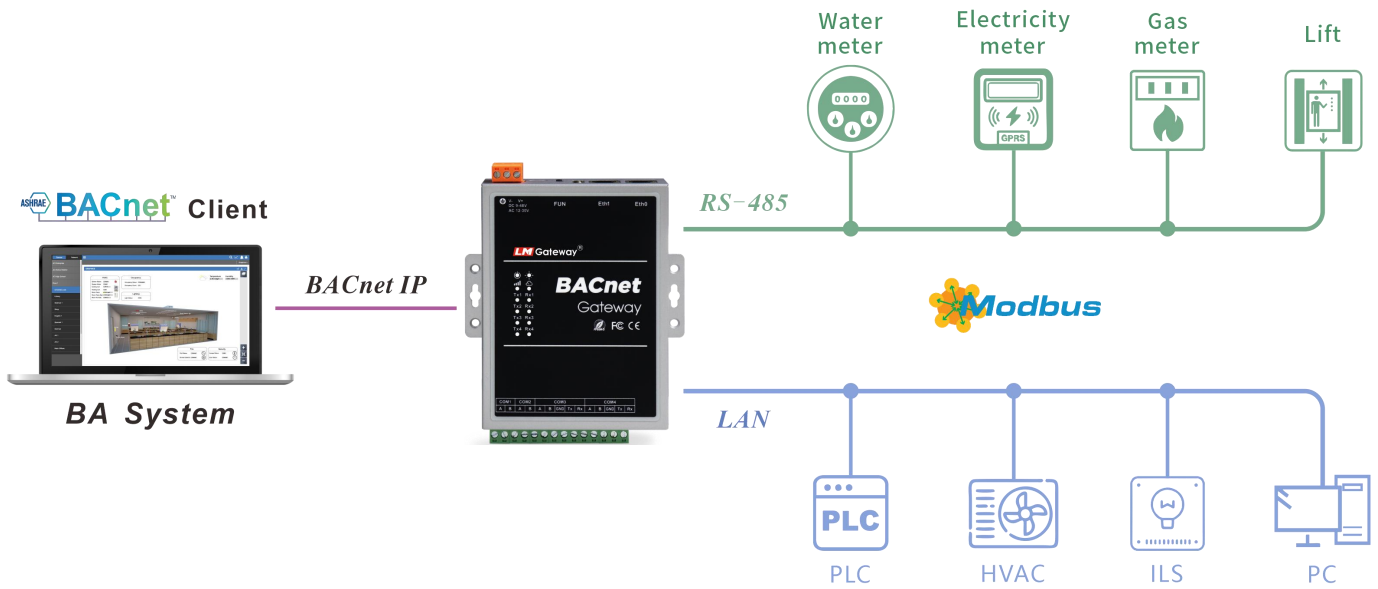
Real-time data acquisition and monitoring: The gateway supports real-time data exchange, enabling the BACnet system to acquire data from Modbus devices in real time and perform corresponding monitoring, alarms, and control.

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

Product Specifications

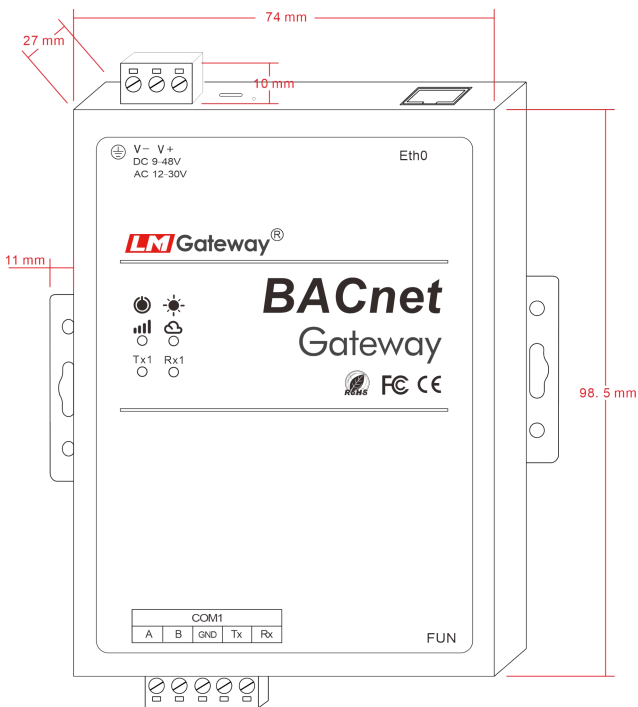
Hardware parameters	Certification	RoHS , CE , FCC Class A
	Memory	64MByte high-performance memory
	Nand flash	128MByte SLC Flash
	Power supply	DC9V ~ 48V / AC12V ~ 30V , supports reverse connection protection, lightning protection, overcurrent protection, etc.
	LED indicator light	POWER , SYS , serial port transmit/receive indicators
	Enclosure protection rating	IP50
	Power consumption	The maximum average power consumption of the entire machine is ≤ 2W.
	Installation method	Supports wall mounting and DIN rail back mounting, DIN rail side mounting.
I/O interface	Serial port	1xRS485
	Network port	1xLAN port
	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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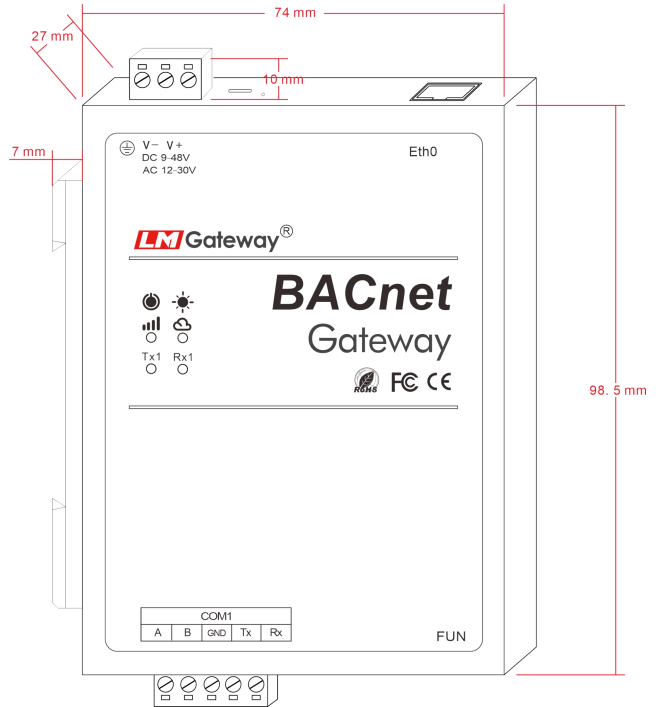


Gateway dimensions and installation diagram

- 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.