

BACnet Gateway (Model: LM Gateway202-B) Data Sheet V2.2.1

RS232-3 Signal sender

RS232-3 Signal receiving

RS485-4 Positive signal

RS485-4 Negative signal

RS232-4 Signal sender

RS232-4 Signal receiving

Signal ground

PRODUCT INTRODUCTION

LM Gateway202-B data acquisition gateway, based on a solid hardware platform design, a complete software kernel Provides 4 RS-485 serial ports, 1 10/100 Mbps Ethernet port, embedded data acquisition driver such as Modbus,, DLT645 in the gateway, provides private protocol driver integration, and the gateway provides data to the BACnet IP server.



HARDWARE SPECIFICATION

LM Gateway202 Hardware parameters:	
CPU	ARM926EJ, clocked at 300MHz
RAM	64MByte high performance memory
Nand Flash	128MByte SLC Flash
Serial port	4 fully isolated RS485/RS232 interface multiplexing
Network port	1 100M/10M Ethernet interface
Power supply	DC9V~36V
Total Weight	210g
Enclosure	IP51
rating	11-31
Mechanical	144mm×100mm×35mm
Dimensions	(L×W×H)
Mechanical	DIN rail card slot fixing
installation	Dividii cara siot lixilig
LM Gateway20	2 Environmental parameters:
Power	The maximum power consumption of the
consumption	motherboard is ≤3W
Operating	-40∼80℃
temperature	20 to 90% non-condensing

INTERFACE DEFINITION

1. POWER

1. TOWER		
SIGNAL	DESCRIPTION	
V+	Power supply	
V-	Negative power supply	
Е	Safety ground	

- 2. DC seat, 5.5*2.1mm
- In an environment with poor power quality, it is recommended to use a switching power supply to effectively improve the gateway's anti-interference ability.
- 3. Network port
- ↓ 10/100M high speed adaptive network card;
- ♣ It adopts dual-level lightning protection and anti-static protection to resist 2KV lightning strikes;
- Unique MAC address .

LAN	IP	Subnet mask
Eth0	192.168.1.233	255.255.255.0

4.CON PIN **SIGNAL** DESCRIPTION COM1-A RS485-1 Positive signal 2 COM1-B RS485-1 Negative signal 3 COM1-GND Signal ground COM1-TX RS232-1 Signal sender COM1-RX RS232-1 Signal receiving 6 COM2-A RS485-2Positive signal COM2-B RS485-2Negative signal COM2-GND Signal ground 9 COM2-TX RS232-2 Signal sender 10 COM2-RX RS232-2 Signal receiving 11 COM3-A RS485-3 Positive signal 12 COM3-B RS485-3 Negative signal 13 COM3-GND Signal ground

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- Fully isolated RS485 interface with three levels of protection;
- Supports the highest level of 4KV protection for the 10/700uS test in the GB/T 17626.5-2008 standard;
- ±15kV human body discharge mode;
- ±15kV IEC1000-4-2 air gap discharge;
- Communication parameters can be configured, default communication parameters: 9600, 8-1-N.

COM3-TX

COM3-RX

COM4-A

COM4-B

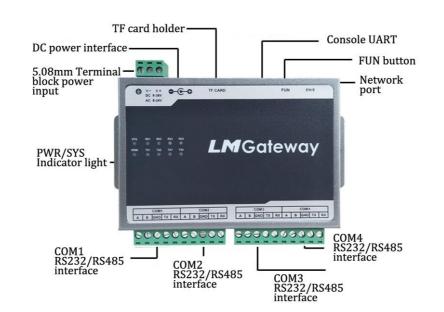
COM4-GND

COM4-TX

COM4-RX

4. LEI

	PIN	MARK	DESCRIPTION
	1	POWER	Power indicator, the light is on
	2	SYS	System operation indication
	3	RX1-4	Serial port receiving indication
	4	TX1-4	Serial port send indication



DATA ACQUISITION DRIVER

Net	Network port		
4	Modbus TCP Client		
4	Modbus RTU_over_TCP		
4	BACnet IP		
4	Siemens S7-200 Network		
4	Siemens S7-1200 Network		
Serial port			
4	Modbus RTU		
4	DLT645-1997,DLT645-2007		
4	CJ188		
4	Siemens S7-200 PPI		

DATA SERVICE

MBus_EnergyMeter

The gateway provides data to the BACnet IP server.

Support AI, AO, AV, BI, BO, BV, MSI, MSO, MSV and other attributes, configurable data units.

Support for Who-Is and I-Am services; cov subscription, read, write, etc.

DATA OPERATION

The data can be calculated by the expression. For example, A represents a collection point, the expression A/100 can be edited, the data is reduced by 100 times, A+0.5, the value is shifted by 0.5, and so on.

DATA STORAGE

The gateway has data storage function, which can realize data storage of I/O points, user points, calculation points and system points. The data of the gateway can only be stored in the TF card.

ALARMS AND EVENTS

The Alarms and Events page allows the user to set the trigger condition for the event, trigger the event when the condition is met, and perform the event release when the state transitions from the satisfied condition to the unsatisfied condition.

MISSION PLAN

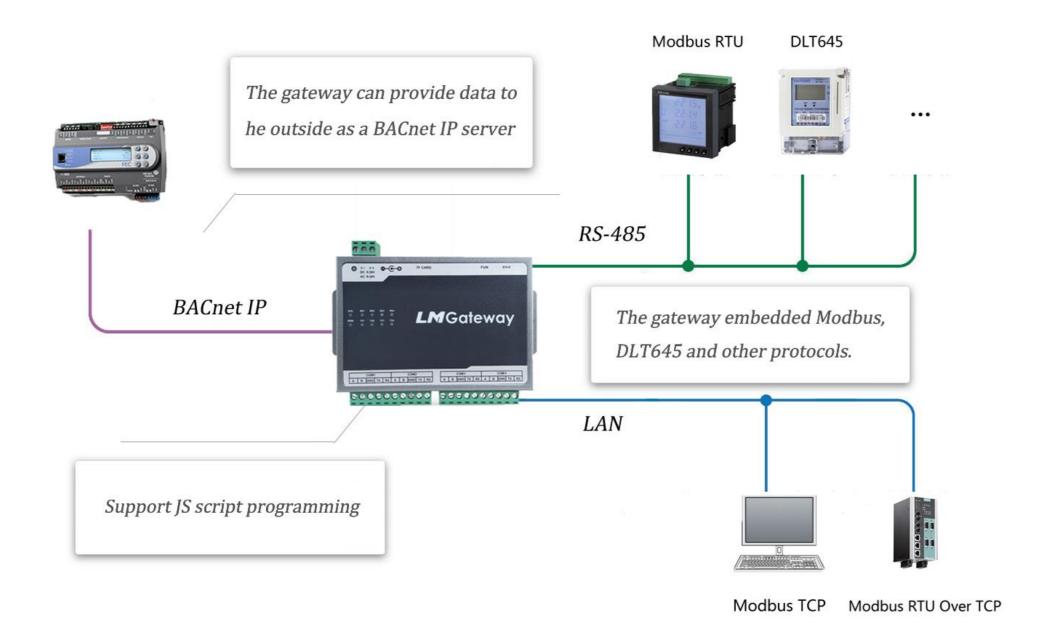
The user establishes a mission plan that specifies the values for multiple points for the day of the week and time period. Please calibrate the gateway time before using the mission planning function

JavaScript EDITING

JavaScript script editor built-in function, user can customize logic control by editing script language

APPLICATION

The gateway supports Modbus RTU, Modbus TCP protocol, Modbus RTU Over TCP protocol, DLT645-1997, DLT645-2007 protocol, CJ188 protocol. The gateway provides data to the outside as a BACnet IP server



CONFIGURING THE GATEWAY

- 1, Power the gateway;
- 2. Connect the LM Gateway202 data collection gateway to the computer or switch using a crossover cable; (note that the gateway and the computer are in the same network segment);
- 3. Use the tool software to configure the data acquisition gateway. For the operation, see the configuration manual of the configuration tool.

Download configuration tool

CONTACT US

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