

PRODUCT INTRODUCTION

LM Router101-B provides 1 RS-485 serial ports and 1 10/100 Mbps Ethernet port. It supports independent routing between BACnet IP and BACnet MS/TP network, and completes configuration through Web pages, provides a complete BACnet network interconnection solution.



HARDWARE SPECIFICATION

LM Router101-B Hardware parameters:	
CPU	ARM926EJ,clocked at 300MHz
RAM	64MByte high performance memory
Nand Flash	128MByte SLC Flash
Serial Port	1 fully isolated RS485 interface
Netwok Port	1 100M/10M Ethernet interface
WIFI	USB WLAN card
Power	DC9V~48V, Support anti-reverse connection, lightning resistance, overcurrent and other protection
Total weigh	280g
Enclosure rating	IP51
Installation size	98.5mm×96mm×27mm(L×W×H)
Mechanical installatio	DIN rail card slot fixing
LM Router101-B Environmental parameters:	
Power consumption	The biggest power consumption is ≤2W
Operating temperature	-40~85℃ 20~90% non-condensing

INTERFACE DEFINITION

1. POWER

SIGNAL	DESCRIPTION
V+	Positive power supply
V-	Negative power supply
E	Safety ground

2. DC, 5.5*2.1mm

- In the environment of poor power quality, it is recommended to use a switching power supply which can effectively improve the

anti-interference ability of the gateway.

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
1	COM1-A	RS485-1 Positive signal
2	COM1-B	RS485-1 Negative signal
3	COM1-GND	Signal ground
4	COM1-TX	RS232-1 Signal sender
5	COM1-RX	RS232-1 Signal receiver

RS485:

- 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.

5 . LEDx-Lightting

PIN	Signal	DESCRIPTION
1	POWER	Power indication
2	SYS	System operation indication
3	TX1	The serial port sends the indication
4	RX1	The serial port receives the indication

FUNCTION FEATURES

- Implements transparent transmission between the BACnet MS/TP bus and the BACnet IP.
- Suitable for Johnson, Siemens, Honeywell, Delta, Schneider ,Siemens VAV controllers and other MSTP bus integration.
- Implement to upload and download programs of DDC devices by BA system software.
- Supports 1 MSTP bus, optically isolated MS/TP port, baud rate is 9.6-115.2kbps.
- The configuration is done through a web page, which is very convenient for users to operate.
- A 10/100 Mbps Ethernet with auto-adaptive and Auto-MDIX

(Automatic Wire Sequence Crossover) capabilities;

- Supports remote configuration management.

APPLY

BACnet router, is a commonly used device for building automation system based on BACnet protocol, which is used to communicate between BACnet IP network and BACnet MS/TP bus. It could realize mutual access and seamless connection between BACnet IP network and BACnet MS/TP bus. Besides it could realize the function of program uploading and downloading on DDC devices. BACnet router has advantages of good on-site adaptability and debugging portability , fully satisfied the technical requirements that BACnet MSTP equipment’s convenient access to BACnet IP network in the project site. It is the essential networking equipment in building automation system.

CONFIGURING THE GATEWAY

- Power the gateway;
- Connect the LM Gateway101 to the computer or switch using a crossover cable; (PS. the gateway and the computer are in the same network segment);
- Enter the factory setting IP address of the gateway (192.168.1.233) in the browser to complete the Router series configuration.

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