

PRODUCT INTRODUCTION

Based on a solid hardware platform design, the LM Router414-B provides a complete software core with four RS-485 serial ports and two 10/100 Mbps Ethernet ports. Support independent routing between BACnet IP and BACnet MS/TP network, complete configuration through Web page, and provide complete BACnet network interconnection solution.



HARDWARE SPECIFICATION

LM Router414-B Hardware parameters:	
CPU	4 core A9, clocked at 1.4GHz
RAM	512MB DDR3 High performance memory
Nand Flash	MLC eMMC Onboard is 4GByte eMMC
Serial port	4 fully isolated RS485/RS232 interface multiplexing
Network port	2 100M/10M Ethernet interface
Power	DC9V~36V
Total Weight	230g
Enclosure rating	IP51
Installation size	140mm×112mm×35mm (L×W×H)
Mechanical installation	DIN rail card slot fixing
LM Router414-B Environmental parameters:	
Power consumption	The maximum power consumption of the motherboard is ≤3W
Operating temperature	-40~80℃
	20 to 90% non-condensing

INTERFACE DEFINITION

1. POWER

SIGNAL	DESCRIPTION
Vin+	Power supply
Vin-	Negative power supply
E	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	192.168.1.230	255.255.255.0
Eth1	192.168.0.230	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	COM2-A	RS485-2 Positive signal
5	COM2-B	RS485-2 Negative signal
6	COM2-GND	Signal ground
7	COM3-A	RS485-3 Positive signal
8	COM3-B	RS485-3 Negative signal
9	COM3-GND	Signal ground
10	COM4-A	RS485-4 Positive signal
11	COM4-B	RS485-4 Negative signal
12	COM4-GND	Signal ground

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. LED

PIN	MARK	DESCRIPTION
1	TX1-4	Serial port send indication
2	RX1-4	Serial port receiving indication

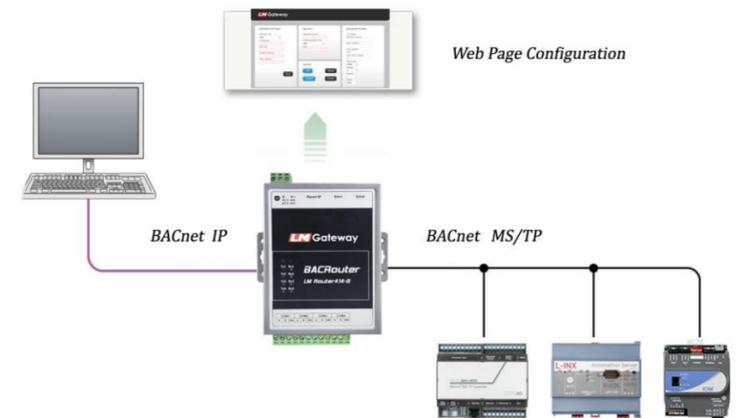
FEATURES

- Multi-function routing
 - BACnet / IP and BACnet MSTP
- IP network support
 - Web server for debugging and troubleshooting
 - Communication Diagnostics Page
 - BACnet / IP Broadcast Management Equipment (BBMD)
- Flexible communication
 - 10/100 Mbps Ethernet with auto-negotiation and automatic MDIX
 - Optically isolated MS / TP port
 - MS / TP baud rate range is 9.6-76.8 kbps
 - Optional MS/TP bias and termination via jumpers

APPLICATION

The BACnet Router provides independent routing between BACnet/IP and BACnet MS/TP networks, allowing system integrators to mix BACnet network technology within a BACnet Internet. The built-in web server allows debugging and troubleshooting using a standard

web browser.



CONFIGURING THE GATEWAY

- Power the gateway;
- Connect the LM Router414-B to the computer or switch using a crossover cable; (note that the gateway and the computer are in the same network segment);
- Debug and troubleshoot using the built-in web server

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