

# Embedded 4G/5G router module

Model: LBT-T300

Version: M400-E-CN-5GA-W4-RS485&RS232

## Product Introduction:

The multi-functional 5G industrial router module is a module that supports 2 gigabit Ethernet ports, dual serial ports, and wide area network 5G wireless communication functions. The module's firmware is loaded with functions such as wide area network communication and VPN tunnels, providing users with high-speed, secure, and reliable mobile broadband service. This module supports 5G access from China Mobile, China Unicom, China Telecom and China Telecom.

The 5G industrial router module can enable fixed cameras to transmit images via 5G network, providing stable and reliable network channels for various devices that need to be connected to the internet. It offers multiple network access methods through Ethernet, RS232 port/RS485 port to meet the needs of customers' applications. It simplifies network development requirements to the greatest extent by supporting WEB configuration mode, is easy to manage and simple to operate, and supports remote cloud control.

Countries	4G/5G network solutions	Wireless network	Number of slots	Serial port Protocol	Custom content
CN= China Version EU= European version NA= North American version GL= Global Edition SA= South American version JP= Japanese version AU= Australian version	A= Domestic Q= Qualcomm V=4G private network R=Redcap H= hisilicon	W0= No WiFi W4=WiFi4 W5=WiFi5 W6=WiFi6	S1= Single card S2= Dual cards	RS232 RS485 TTL	DO POE GPS ESIM

Example: M400-E-CN-5GA-W4-S1-RS485&232; Version M400-E, China 5G domestic solution, single band WiFi4, single card, protocol RS485&232, no customization

Note: Some versions do not allow customization of the above content.

## ○ Hardware parameters

Product size	74.09*41.92*9.45mm(L×W×H)
External interface	RS232/485 interface: 2 (2.0mm 4PIN connectors) LAN port: 2 (LAN1 is WAN/LAN adaptive) Reset button: 1 Terminal power supply interface: 1
Protection grade	Indicator lights: 4 Antenna interface: 1-3 (optional) SIM card slot: 1
Power supply	DC power supply: 12V/2A
Indicator light	LINK、SYS、ETH0-1
Antenna	IPEX 4 generation connector socket
Authentication	CE、FCC、CCC
Storage memory	Storage: 16MB, memory: 128MB
Power consumption (current)	less than 400 mA
Operating temperature	Operating temperature: -20 to +70 °C Storage temperature: -40 to +80 °C
Humidity	Humidity: 5 to 95% (non-condensing)

## ○ Optional frequency bands

4G Band	CN: FDD-LTE B1/3/5/8 TDD-LTE B38/39/40/41 EU: FDD-LTE B1/3/5/7/8/20 TDD-LTE B38/39/40/41 AU: FDD-LTE B1/3/5/7/8/20/28 TDD-LTE B38/40/41
5G Band (Optional)	GN(Qualcomm): 5G Sub-6: n1/28/41/77/78/79 LTE FDD: B1/2/3/5/7/8 LTE TDD: B34/39/40/41 GN(ZESHI): 5G Sub-6: n1/28/41/78/79 LTE FDD: B1/2/3/5/7/8 LTE TDD: B34/38/39/40/41

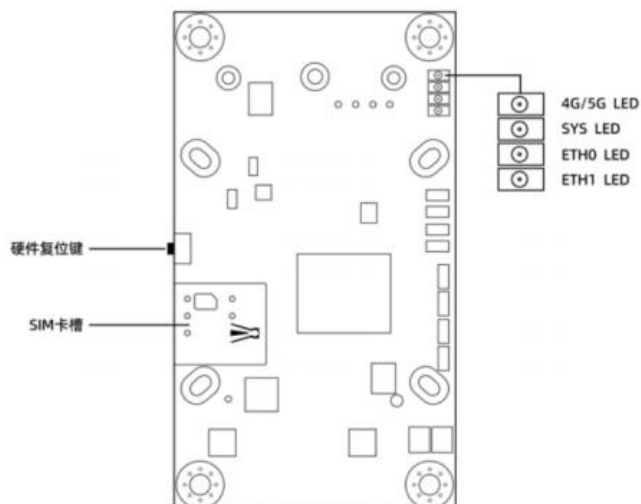
## ○ Feature Data

Basic Features	4G Internet Protocol: 4G Dial-up Internet Access, DHCP/Static, IP/PPPoE Supported number of users: Wired: 253, Wireless: 30 VPN Protocol: PPTP Client, L2TP Client (only supported in dedicated network version) WiFi Protocol: IEEE802.11b/g/n Port Protocol: NAT, DNAT, DMZ, Port Forwarding Dynamic DNS: Supports Huaxia Shell, 88IP and dyndns domain name service providers
System Services	Virtual servers, port triggers, serial port services, firewalls, MAC filtering, access control, port blocking, regional Settings, factory reset, NTP server Settings, backup system information, software upgrades, remote management
Operating system	System: Windows XP/VISTA, Linux 2.6, Windows 7
Browser Requirements	MAC OS: 10.3.7 ; Browser: IE:6.0 Safari:1.2.4 Firefox:2.0.0.8

## ○ Product packaging size/weight

Product weight (g)	24g
Product dimensions (mm)	74.09*41.92*9.45mm
Packaging size (cm)	14*16cm(Bubble bag)
Product packaging weight (kg)	0.5kg
Outer box dimensions (cm)	71.3*44.3*26.8cm
Container weight estimate (kg)	17kg

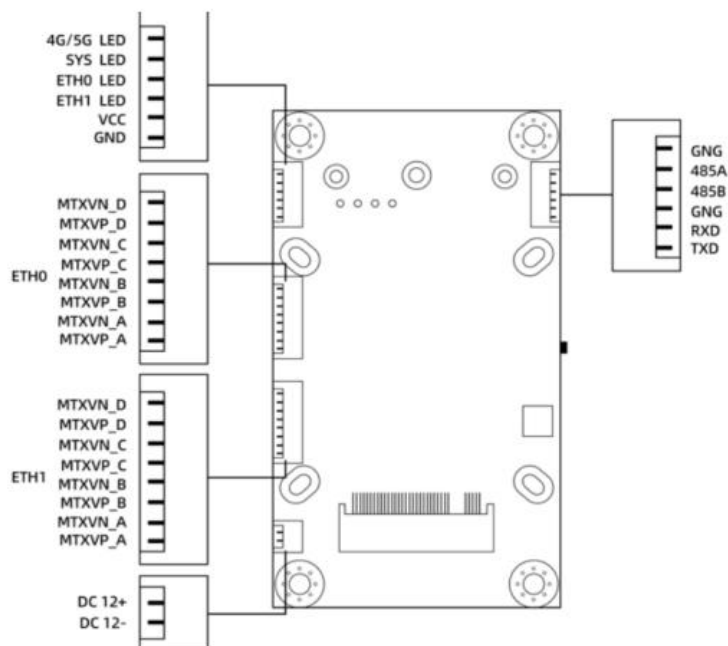
## A面



A: 连接器 J14

引脚序号	信号名称	信号功能
1	4G/5G	4G/5G 状态指示
2	SYS	设备运行状态指示
3	ETH0	网络连接端口
4	ETH1	网络连接端口
5	VCC	电源正极
6	GND	电源负极

## B面



B: 连接器 J3 数据串口【232/485】

引脚序号	信号名称	信号功能
1	GND	接地
2	RS485A	差分信号 RS485A
3	RS485B	差分信号 RS485B
4	GND	接地
5	RS232-RXD	串口输入 RS232
6	RS232-TXD	串口输出 RS232

C: 连接器 J7 以太网连接 WAN/LAN

引脚序号	信号名称	信号功能
1	MTXVN_D	以太网差分线-
2	MTXVP_D	以太网差分线+
3	MTXVN_C	以太网差分线-
4	MTXVP_C	以太网差分线+
5	MTXVN_B	以太网差分线-
6	MTXVP_B	以太网差分线+
7	MTXVN_A	以太网差分线-
8	MTXVP_A	以太网差分线+

D: 连接器 J5 以太网连接 LAN

引脚序号	信号名称	信号功能
1	MTXVN_D	以太网差分线-
2	MTXVP_D	以太网差分线+
3	MTXVN_C	以太网差分线-
4	MTXVP_C	以太网差分线+
5	MTXVN_B	以太网差分线-
6	MTXVP_B	以太网差分线+
7	MTXVN_A	以太网差分线-
8	MTXVP_A	以太网差分线+

E: 连接器 J6 电源输入

引脚序号	信号名称	信号功能
1	VCC	DC6-12V +
2	GND	DC6-12V -

F: 连接器 J1 Debug 串口

引脚序号	信号名称	信号功能
1	VCC	电源
2	RXD0	接收 TTL
3	TXD0	发送 TTL
4	GND	接地

# ○ Exterior positioning hole illustration

