



**LINBLE**  
**力必拓**

**Mbedded 4G router  
module**

**LBT-T300-M400-D**

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Product specification

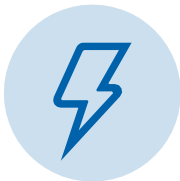
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# Product overview

Multifunctional 4G industrial router module, which supports 2-port Ethernet (1 LAN, 1 WAN), WIFI LAN (802.11 B/G/n) communication, serial DTU, WAN 4G wireless communication function module, realize seamless connection between wireless LAN and wireless WAN, and provide users with high-speed, safe and reliable mobile broadband services. The module supports 4G access of China Mobile, China Unicom, China Mobile and China Telecom. The camera can be fixed to transmit images through the 4G network to provide a stable and reliable network channel for various devices that need to be connected to the Internet. The Ethernet port, RS232 port, RS485 port and WIFI are used to provide a variety of simple and easy-to-use network access modes for customer applications, which simplifies the network development needs to the greatest extent.

Support WEB configuration mode, convenient and simple management, and support remote cloud control.

## Field of applicat



Electricity



Petroleum



Coal mine



Finance



Communication



Public security



Heat



Industrial Control



Weather



Water Conservancy



Traffic



Municipal



## Product characte

1. Ultra-small size, only 74 X 42 X 12.5mm in length and width;
2. Support hundreds of 4G wireless modules, basically plug and play
- 3, intelligent anti-drop, support online detection, drop automatic redial, to ensure that the device is always online
4. Support 4G backup network, seamlessly switch to 4G network when cable is disconnected, and automatically detect cable recovery
5. Cloud remote background management, remote upgrade and remote configuration
6. Support serial port data serial port TCP/UDP transparent data transmission or AT command transmission
7. Support VPN security tunnel function, including PPTP and L2TP
8. Complete and robust router functions, supporting multiple Internet access modes: automatic IP allocation, designated IP, PPPoE
9. Support IPTABLES firewall and various network protocols
10. Support dynamic DDNS: support Peanut Shell, 88IP and dyndns domain name service providers
11. Support serial port local TFTP and web software upgrade

# Functional overview

## Software function

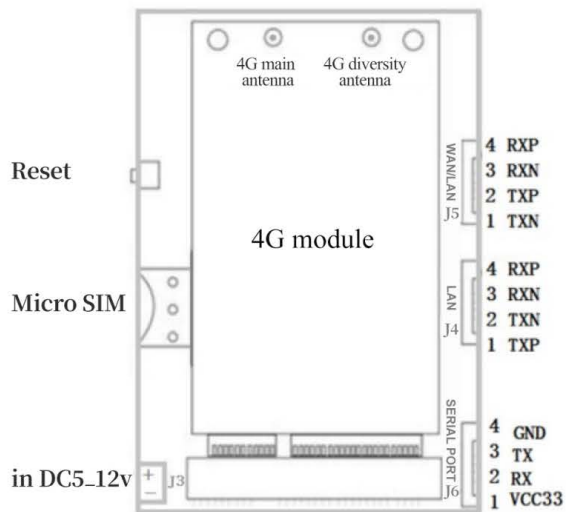
The way to surf the Internet	4G dial-up DHCP/Static IP/PPPoE
Number of users supported	Wired: 253, Wireless: 30
Operating system requirements	Windows XP/VISTA Linux 2.6 Windows 7 and above MAC OS: 10.3.7 and above
Browser requirements	IE: 6.0 and above Safari: 1.2.4 and above Firefox: 2.0.0.8 and above
Security management	Set up a firewall to prevent malicious attacks from the Internet on computers in the LAN. MAC filtering: prohibit MAC addresses that have been added. Access control: Control the access of computers in the LAN to the Internet. Port blocking: Block certain viruses from continuously initiating connections through a certain port to prevent Dos attacks
System Services	Virtual server: Set an internal server for Internet users to access DMZ: When the open port of the virtual server to be set is uncertain, it can be set as a DMZ host Port triggering: The wireless router can automatically open the inward service port according to the port of the LAN accessing the Internet. Serial port service: realize serial port data transmission, AT command control and other functions
Equipment management	Locale NTP server settings Back up system setup information Restart Recover Settings Information from File Change the password and restore to the factory settings Software upgrade Remote management
WLAN security mode	Open System WPA-PSKWPA2-PSK WPAPSK WPA2PSK (ie WPA-PSK and WPA2-PSK mixed mode) WPA1WPA2 (i.e. WPA and WPA2 mixed mode)

## Hardware parameters

Wireless interface	IEEE802.11b/g/n
Operating frequency band	2400-2483.5MHz
Antenna	IPEX Generation Female
WIFI transmission rate	150-300Mbps ( MAX )
External interface	LAN port: 2 (LAN1 is WAN/LAN adaptive) RS232/485 interface: 1 SIM card slot: 1 Antenna connector: 1-4 (optional) Indicator light: 3 Terminal power supply interface: 1 reset key: 1
WIFI data	802.11n: -66dBm at 300Mbps/HT40 MCS7 :+15.5dBm 802.11b: -86dBm at 11Mbps/CCK: +18 dBm 802.11g: -73dBm at 54Mbps/OFDM: +15.5dBm
Frequency band supported (optional)	GN (Domestic-Default): FDD-LTE B1/3/5/8 TDD-LTE B38/39/40/41 Europe FDD-LTE B1/3/5/7/8/20 TDD-LTE B38/39/40/41 North America (NA): FDD-LTE B2/3/4/5/7/8/12/13/17/25/26/66 TDD-LTE B41  Global FDD-LTE B1/2/3/4/5/7/8/17/20/28 TDD-LTE B38/39/40/41
Storage memory	Store 8 MB Memory 64MB
Overall dimensions	Length, width and height: 74 X 42 X 12.5 mm (fixed hole installation)
Power source	DC supply: 12 V/1A
Power consumption (current)	Less than 400mA
Work environment	Operating temperature: -30°C~+70°C Storage temperature: -40°C~+85°C Humidity:5%~95%, non-condensing

# Interface description

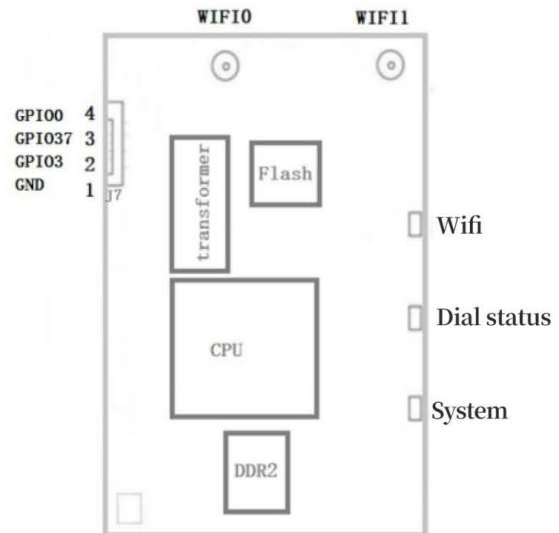
## Side A



A: Connector J7

Pin No	Signal name	Signal function
1	GP I00	I/O
2	GP I037	I/O
3	GP I003	I/O
4	GND	Grounding

## Side B



B: Connector J6 data serial port [232, 485]

Pin No	Signal name	Signal function
1	VCC	3.3V
2	RXD/B	Serial ports
3	TXD/A	Serial port output
4	GND	Grounding

C: Connector J4 Ethernet connection LAN

Pin No	Signal name	Signal function
1	TXP	Ethernet differential transmitting negative terminal
2	TXN	Ethernet differential transmitting positive terminal
3	RXN	Ethernet differential receiving negative terminal
4	RXP	Ethernet differential receiving positive terminal

D: Connector J5 Ethernet connection WAN/LAN

Pin No	Signal name	Signal function
1	TXN	Ethernet differential transmitting positive terminal
2	TXP	Ethernet differential transmitting negative terminal
3	RXN	Ethernet differential receiving negative terminal
4	RXP	Ethernet differential receiving positive terminal

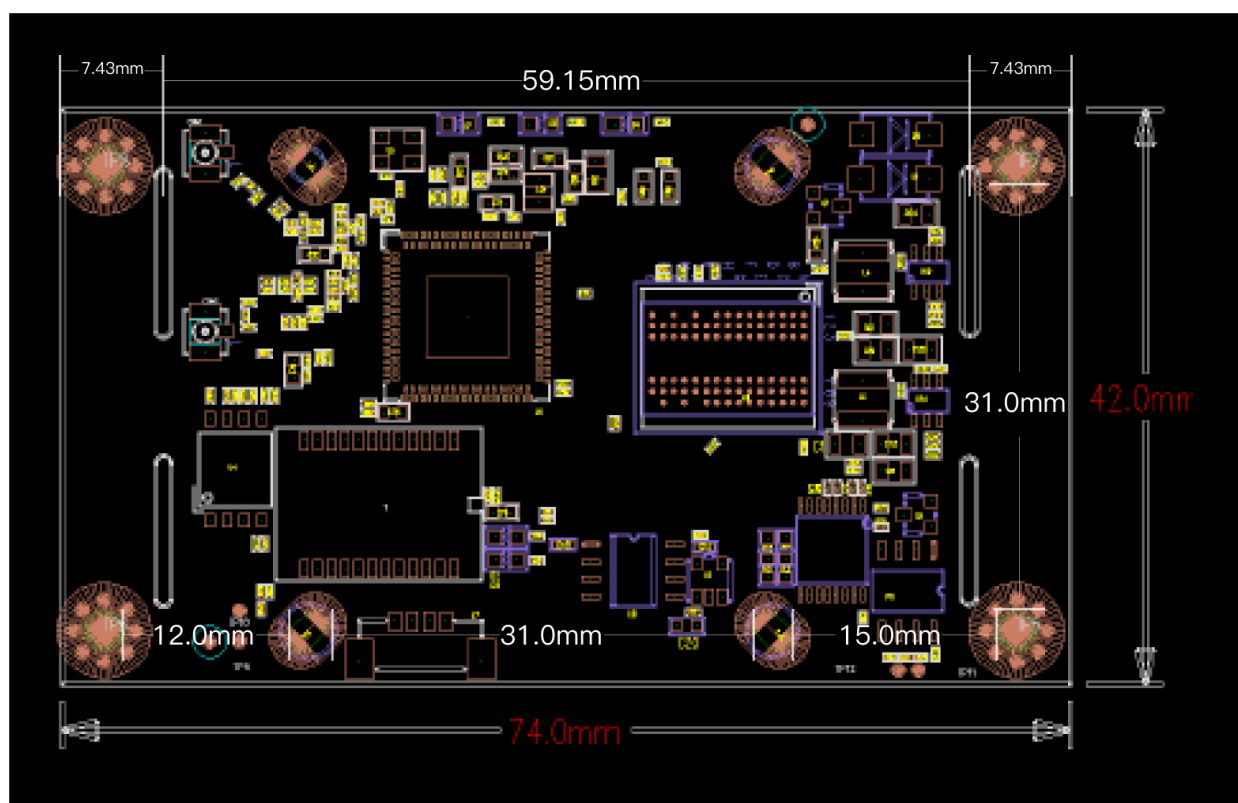
E: Connector J3 power input

Pin No	Signal name	Signal function
1	VCC	DC12V +
2	GND	DC12V -

F: Connector J1 Debug serial port

Pin No	Signal name	Signal function
1	VCC	Power Supply
2	RXD0	Receive TTL
3	TXD0	Send TTL
4	GND	Grounding

# Schematic diagram of shell locating holes



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