LINBLE 力必拓

4G&5G Industrial Router

LBT-T300-T310E

Product specification

Product overview

T310 industrial wireless router is a wireless communication product with excellent performance developed by Shenzhen Libiton Technology Co., Ltd. based on 4G/5G network demand. It is mainly used in the data transmission business of industry users, supporting transparent data transmission, image transmission, equipment monitoring and wireless routing Internet access and other functions.

The T310 uses an embedded high-performance CPU to effortlessly handle advanced applications such as routing and security, and can be paired with a variety of 4G/5G industrial communication modules (TDD-LTE/FDD-LTE networks, 5G-SA/NSA). Provide 10/100M Ethernet port, WIFI wireless interface and serial port. A variety of terminal devices can be docked.

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

Field of applicati
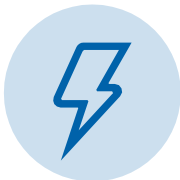
Electricity	Petroleum	Coal mine	Finance
Communication	Public security	Heat	Industrial Control
Weather	Water Conservancy	Traffic	Municipal

1. Ultra-small volume, length and width are only 97 mm × 78.2 mm × 25.1 mm;

2, industrial protection interface, easy to install;

3. Adopt metal shell with protection grade of IP30;

4. Wired + wireless router solution;

5. Support 802.11 B/G/n protocol, up to 300Mbps;

6. Wired support 1 WAN or 1 LAN, 10M/100M adaptive;
7. Software and hardware watchdog anti-crash design, after the router is disconnected, it will automatically power off and restart to ensure stable and reliable operation of the equipment; 8, automatic detection of network disconnection, automatic restart of dialing failure, timing restart and other functions;
9. Serial port transparent transmission function. The command control mode can be entered through the serial port to control the router and ancillary equipment;

10. Port mapping, DMZ host and other functions;

11. Support VPN (PPTP Client, L2TP Client);

12. Optional GNSS positioning module, supporting RTK technology and multiple

satellite systems
(GPS, GLONASS, Beidou, WAAS, EGNOS, MSAS, GAGAN) hybrid engine);

Functional overview

Functions overview

Software function

The way to surf the Internet	4G/5G 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　　　　　　　　Software upgrade NTP server settings　　　　Remote management Back up system setup information Restart Recover Settings Information from File Change the password and restore to the factory settings
WLAN security mode	**Open System** WPA2PSK (ie **WPA-PSK** WPA-PSK and **WPA2-PSK** WPA2-PSK mixed mode) **WPAPSK** WPA1WPA2 (i.e. WPA and WPA2 mixed mode)

Hardware parameters

Wireless interface	IEEE802.11b/g/n
Operating frequency band	2400-2483.5MHz
WIFI transmission rate	300Mbps (maximum theoretical value)
External interface	LAN port: Antenna interface: 1-4 (optional) 2 (10/100M, Wan/lan switchable) Indicator light: 4 RS232/485 interface: 1 DC power supply interface: 1 SIM card slot: 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)	4G-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 5G-GN (domestic-default): 5G NR NSA:N41/N78/N79 5G NR SA:N1/N8/N28/N41/N78/N79 LTE-FDD:B1/B3/B5/B8 LTE-TDD:B34/B38/B39/B40/B41
Storage memory	Store 8 MB Memory 64MB
Overall dimensions	Length, width and height: 94.1 * 78.2 * 25.1mm (excluding antenna interface)
Power source	DC power supply: 12-24V/2A (optional 12/24 V)
Power consumption (current)	4G: less than 400mA 5G: less than 800mA
Work environment	Operating temperature: -20 ° C ~ + 70 ° C Storage temperature: -40 ° C ~ + 80 ° C Humidity: 5% ~ 95%, non-condensing

Interface description

Interface specification

Side a, side B

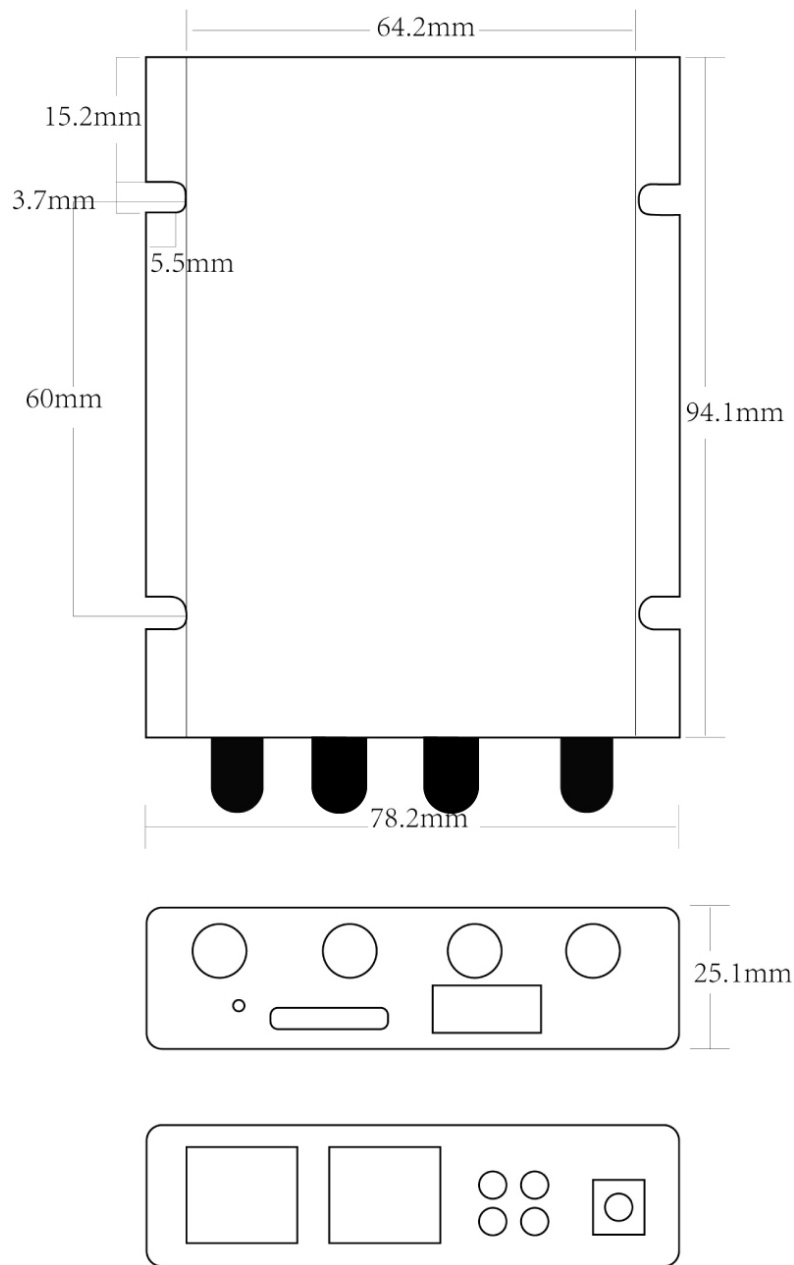Pictures are for reference only.

Side A

1. LAN1/LAN2: RJ45 interface; In standard router mode, LAN1 can be used as a WAN port.

2. DC power interface: 2.1mm round head power interface, positive inside and negative outside, voltage input 12V-24V.

3. Indicator light: LAN1/LAN2: wired network access indicator light, which is always on when the connection is normal and flashes when there is data traffic. SYS lamp: it is always on after power on, and it flashes slowly when the system is started normally. Flash when the reset key is pressed. LINK light: In 4G/5G or WIFI bridging mode, it flashes when dialing (bridging AP), and it is always on after successful networking.

Side B

1. 4G/5G/2.4G-WIFI antenna interface: SMA external rotation and internal hole interface.

2. R (reset) key: press this key for 5 seconds in the power-on state, the SYS light will flash quickly, and then restart, and the reset is successful.

3. RS232/RS485 serial interface: 2.0m 4 PIN connector.

4. SIM card slot: snap-in SIM card holder. If you need to take out the SIM card, gently push the SIM card.

Schematic diagram of shell locating holes

Schematic diagram of positioning hole of shell

64.2mm

15.2mm

3.7mm

5.5mm

60mm

94.1mm

78.2mm

25.1mm