



LINBLE
力必拓

5G industrial router

LBT-T300

Product specification

Product overview

The T300-5G industrial CPE router is an IOT gateway device that supports multiple Internet access modes (Ethernet/WIFI client/4G/5G) and multiple local data (WIFI2.4G/5.8G/Ethernet/RS232/RS485) full-stack intelligent protocols. The equipment is loaded with Wan communication, VPN tunnel, WIFI LAN, RS232/485 transparent transmission and other functions.

It can realize the seamless connection of wireless LAN, Ethernet, intelligent hardware and wireless Wan, and provide users with high-speed, safe and reliable access services.

5G industrial router can also be used as vehicle-mounted special equipment. The equipment adopts metal shell, provides vehicle-mounted fixing piece, and is designed with IP30 protection grade.

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. Adopt metal shell with protection grade of IP30;
2. Support (WCDMA/CDMA/TD-SCDMA), 4G (FDD-LTE/TDD-LTE), 5G (SA/NSA);
3. UIM/SIM card ESD protection: 1.8V/3V standard push-type user card interface, built-in 15KV ESD protection; Serial port ESD protection: RS232 built-in 15KV ESD protection, IEC61000-4-2 (Contact) $\pm 30KV$, IEC61000-2-4 (Air) $\pm 30KV$;
4. Standard RJ45 (Ethernet) interface built-in lightning protection 3000V (non-standardized configuration);
5. Industrial wireless dual-frequency high-power CPE: industrial wireless module is adopted, with strong anti-interference and stable transmission;
6. Software and hardware watchdog anti-crash design, after the router is disconnected, it will automatically power off and restart.
Ensure stable and reliable operation of the equipment;
- 7, automatic detection of network disconnection, automatic restart of dialing failure, timing restart and other functions;
8. Serial port transparent transmission function. The command control mode can be entered through the serial port to control the router and ancillary equipment;
9. Support multiple DDNS dynamic domain name services;
10. Port mapping, DMZ host and other functions;
11. Support VPN (PPTP Client, L2TP Client);

Functional overview

Software function

The way to surf the Internet	4/5G 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 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-PSK WPA2-PSK WPAPSK WPA2PSK (ie WPA-PSK and WPA2-PSK mixed mode) WPA1WPA2 (i.e. WPA and WPA2 mixed mode)

Hardware parameters

Wireless interface	IEEE802.11ac/b/g/n
Operating frequency band	2412-2472MHz/5180-5825Mhz
Antenna	SMA external rotation and internal hole
WIFI transmission rate	1167Mbps (MAX)
External interface	LAN ports: 4 (LAN1 (optional) (WAN/LAN adaptive) RS232/485 interface: 1 interface: 1 SIM card slot: 1 Antenna interface: 8 Indicator light: 6 DC power supply Reset key: 1
WIFI data	802.11n: -66dBm at 300Mbps/HT40 MCS7 +23dBm 802.11b: -86dBm at 11Mbps/CCK: +23dBm 802.11g: -73dBm at 54Mbps/OFDM: +26dBm 802.11ac:-90dBm at 867Mbps
Frequency band supported (optional)	GN (Domestic-Qualcomm): Asia, Europe and Australia: 5G Sub-6: n1, n28, n41, n77, n78, n79 n1/3/5/8/20/28 LTE FDD: B1, B2, B3, B5, B7, B8, /38/41/77/78 LTE TDD: B34, B39, B40, B41 /79 GN (Domestic-Zhanrui) 5G Sub-6: n1, n28, n41, n78, n79 B1/3/5/7/8/19/ LTE FDD: B1, B2, B3, B5, B7, B8, 20/28 LTE TDD: B34, B38,B39, B40, B41 B38/40/41/42 /43
Main frequency of storage memory	Store 16 MB Main frequency: 880MHz Memory 128MB [on chip]
Overall dimensions	Length, width and height: 149 * 126 * 46mm (optional fixing piece/guide rail installation)
Power source	DC power supply: 12 V/3A
Power consumption (current)	Less than 800mA
Work environment	Operating temperature:-30°C~+70°C Storage temperature:-40°C~+80°C Humidity:5%~95%, non-condensing

Interface description

Side A



Side B



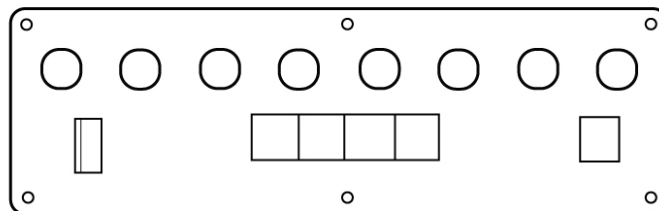
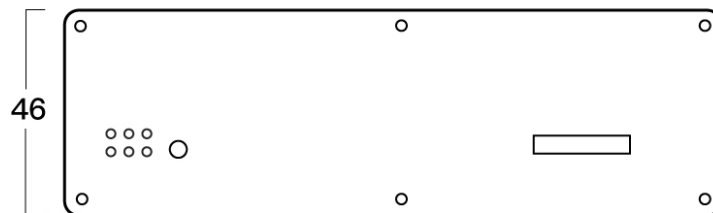
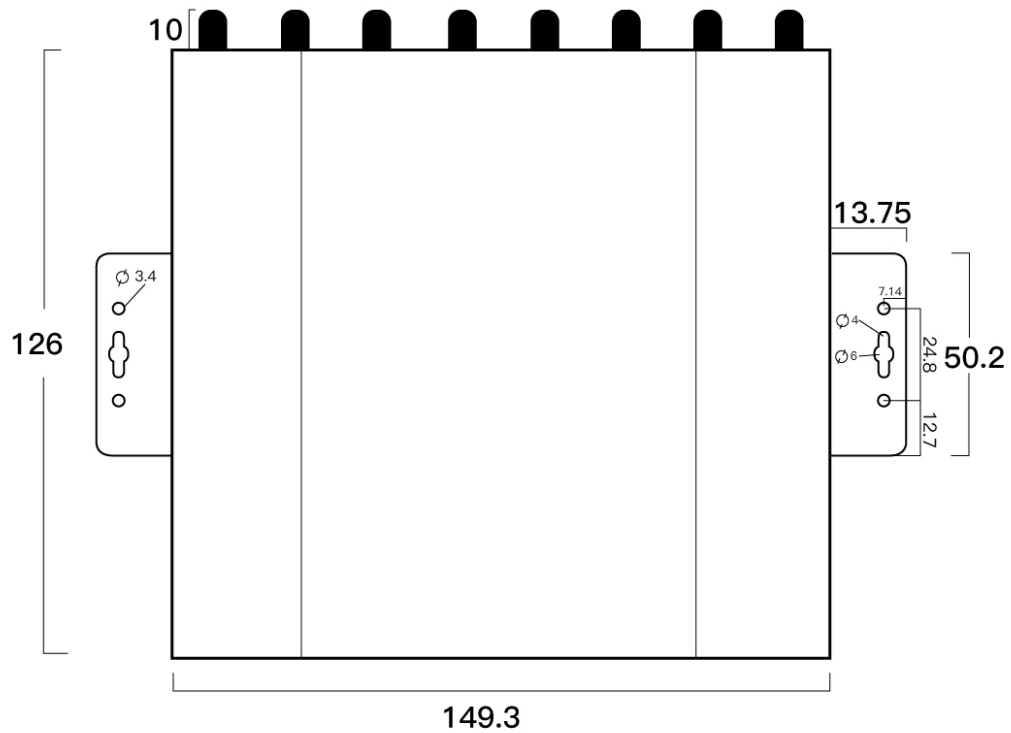
Side A

1. Indicator light: LAN1/LAN2/LAN3/LAN4: wired network access indicator light, which is always on when the connection is normal and flashes when there is data traffic.
 2. 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 or WIFI bridging mode, it flashes when dialing (bridging AP), and it is always on after successful networking.
 3. 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.
- SIM card slot: snap-in SIM card holder. If you need to take out the SIM card, gently push the SIM card.

Side B

1. 4/5G/WIFI antenna interface: SMA external rotation and internal hole interface.
2. RS232/RS485 serial interface: 6Pin female terminal Edg 3.5.
3. LAN1/LAN2: RJ45 interface; In standard router mode, LAN1 can be used as a WAN port.
4. DC power interface/terminal power supply: 2.1mm round head power interface, positive inside and negative outside, voltage input:
5. 12 V. Input power greater than 10 W is recommended.
6. 5. USB2.0: connect to the USB driverless camera and share files;

Schematic diagram of shell locating holes



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