



## 4G /5G industrial wireless routers

Model: LBT-T300

Version: HW5-1800-CN-5GA-W6-RS485&RS232

### Product Introduction:

The 4G/5G industrial-grade wireless router is a high-performance wireless communication product developed by Shenzhen Lifituo Technology Co., Ltd. based on the requirements of 4G/5G networks. It is mainly used for data transmission services for industry users, supporting transparent data transmission, image transmission, equipment monitoring, and wireless internet access functions.

The 4G/5G industrial-grade wireless router uses an embedded high-performance CPU, which can effortlessly handle advanced applications such as routing and security. It can be paired with various 4G/5G industrial communication modules (TDD-LTE/FDD-LTE networks, 5G-SA/NSA). It provides 10/100/1000Mbps Ethernet ports, WIFI wireless interfaces, and serial ports. It can be connected to various terminal devices.

It supports WEB configuration mode, which is convenient and simple to manage, 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: HW5-1800-CN-5GA-W6-S1-RS485&232; Version HW5-1800, China 5G domestic solution, single band WiFi6, single card, protocol RS485&232, no customization

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

## Hardware parameters

Product size	274.5*194.5*80mm (Length×Width×Height)
Power supply	Default POE power supply: 48V, or DC power supply: 7 - 35V
GPS	Customizable GNSS positioning module, supporting RTK technology, and capable of using a variety of satellite systems (GPS, GLONASS, Beidou, WAAS, EGNOS, MSAS, GAGAN) as a mixed engine.
External interface	Reset key: 1 Indicator lights: 6 Antenna interface: 1-8 (optional) SIM card slot: 1 DC power supply interface: 1 (2.1mm round power connector)
Protection grade	RS232/485 interface: 1 (3.5mm 6PIN connector) USB2.0: for connecting USB cameras without drivers, sharing files Ports: 2 (1 LAN ~ 1 POE), 3KV lightning protection (optional), POE input (optional) Protection level: IP66
Antenna	Built-in antenna
Storage memory	Storage :16MB, memory: 128MB
Authentication	CE, FCC, CCC
Power consumption (current)	4G: less than 400 mA 5G: less than 800mA
Operating temperature Humidity	Operating temperature: -20 to +70 ° C Storage temperature: -40 to +80 ° C Humidity: 5 to 95% (non-condensing)

## Product packaging size/weight

Product weight (g)	552g
Product dimensions (mm)	274.5*194.5*80mm
Packaging size (cm)	385*220*64cm
Product packaging weight (kg)	1kg
Outer box dimensions (cm)	71.3*44.3*26.8cm
Container weight estimate (kg)	22kg

## Feature Data

Basic Features	Internet Protocol: 4G /5G dial-up DHCP/Static /PPPoE dial-up /WiFi relay Number of supported users: Wired: 253, wireless: 128 WiFi Protocol: IEEE802.11b/g/n Network functions: NAT, DNAT, DMZ, port forwarding Port protocols: MODBUS, MODBUS slave, MQTT gateway	
VPN	OpenVPN Client、 IPsecVPN Client、 PPTP VPN Client、 L2TP VPN Client	
Operating frequency band	2412-2472MHz、 5180-5825Mhz	
WiFi transmission Rate/Data	Transmission Rate: 1800 Mbps (MAX) Wi-Fi Data: 2.4G Speed: 573 Mbps (Max) 2.4G Power: 21 dB (-2 dBm+) 5.8G Speed: 1201 Mbps (Max) 5.8G Power: 21 dB (-2 dBm+)	
Firmware customization	Operating System: Linux operating system based on OpenWrt Supported languages: BusyBOS sheel,Lua,C,C++ Development tools: Provide SDK packages with built-in environments and contact us for custom development based on requirements documentation	
WLAN Security Consultative	OpenSystem, WPA-PSK, WPA2-PSK, WPAPSK/WPA2 PSK, WPA1 / WPA2	
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 Browser Requirements	System :Windows XP/VISTA, Linux 2.6, Windows 7 , MAC OS: 1.0.3.7 ; Browser :IE:6.0 Safari:1.2.4 Firefox:2.0.0.8	
Device Management	WEB UI	HTTP/HTTPS, status, configuration, local firmware updates, troubleshooting, Syslog
	FOTA upgrades	Cloud platform server update
	SSH/TELNET	SSH(v1,v2), telnet
	TR-069	OpenACS, EasyCwm p, ACSLite, tGem, Libre ACS, Genie ACs, Free ACS, LibCWMP, Friendly tech(customizable)
	SNMP Network Management	SNMP(v1, v2, v3)(customizable)
Remote Interface Protocol	API management based on HTTP/HTTPS (customizable)	
MODBUS	MODBUS TCP Status/Control (customizable)	

## Optional version configuration

Version	Mobile network	ports	WiFi	Serial	POE
HW5-5GMINI1	5G	2	no	RS232/R S485	Support
HW5-5GMINI2	5G	2	WiFi4	RS232/R S485	Support
HW5-5GPRO1	5G	4	WiFi5	RS232/R S485	Support
HW5-5G1800	5G	5	WiFi6	RS232/R S485	Support
HW5-4G310	4G	2	no	RS232/R S485	Support
HW5-4G310W	4G	2	WiFi4	RS232/R S485	Support
HW5-4G390W	4G	5	WiFi4	RS232/R S485	Support

## 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 NA: FDD-LTE B2/3/4/5/7/8/12/13/17/25/26/66 TDD-LTE B41 SA: FDD-LTE B2/4/5/7/8/28 TDD-LTE B40 J: FDD-LTE B1/3/8/18/19/26 TDD-LTE 41 GL: FDD-LTE B1/2/3/4/5/7/8/17/20/28 TDD-LTE B38/39/40/41
5G band (Optional)	CN: 5G NR NSA:N41/78/79 5G NR SA:N1/8/28/41/78/79 LTE-FDD B1/3/5/8 LTE-TDD: B34/38/39/40/41 EA: 5G SA&NSA:N1/3/5/7/8/20/28/38/40/41/71/77/78/79 LTE-FDD: B1/3/5/7/8/18/19/20/28/32 LTE-TDD: B34/38/39/40/41/42 GL5G NR SA: n1/2/3/5/7/8/12/20/25/28/38/40/41/48/66/71/77/78/79 5G NR NSA: n38/41/77/78/79 LTE-FDD: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/30/32/66/71 LTE-TDD: B34/38/39/40/41/42/43/48

## Standard accessories



Power adapter \*1

Optional: British Standard /  
European Standard / American  
Standard



2 m suction cup antenna -  
WiFi



2 m suction cup antenna -4G  
(Optional cabinet antenna, rubber stick  
antenna, etc.)



Certificate of conformity \*1

