



5G industrial wireless routers

Model: LBT-T300

Version: HW1-CN-5GA-W5-RS485

Product Introduction:

HW1 Industrial-grade Wireless Router is an outstanding 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.

HW1 uses an embedded high-performance CPU that 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 10/100M/1000M 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 for management 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: HW1-CN-5GA-W5-S1-RS485; Version HW1, China 5G domestic solution, single band WiFi5, single card, protocol RS485, no customization

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

○ Hardware parameters

Product size	180*180*45mm (Length×Width×Height)
Power supply	POE power supply: 48V/0.5A, DC power supply: 7-35V/1A
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: 4-5 (optional) RS232/485 interface: 1 (3.5mm 6PIN connector) USB2.0: for connecting USB cameras without drivers, sharing files Ports: 1(1 LAN ~ 1 POE), 3KV lightning protection (optional), POE input (optional) Protection level: IP66
Protection grade	
Antenna	N-headed female connector
Storage memory	Storage :16MB, memory: 128MB
Authentication	CE, FCC, CCC
Power consumption (current)	5G: less than 800mA
Operating temperature	Operating temperature: -20 to +70 ° C Storage temperature: -40 to +80 ° C
Humidity	Humidity: 5 to 95% (non-condensing)

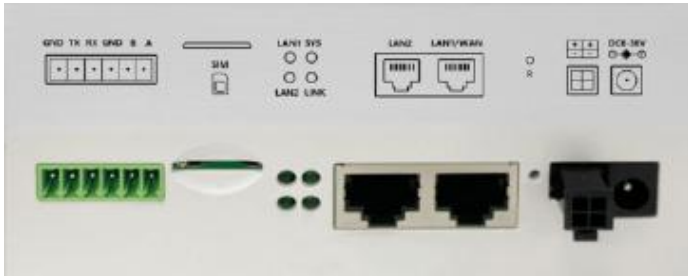
○ Product packaging size/weight

Product weight (g)	830g
Product dimensions (mm)	180*180*45mm
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:60 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 shell,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	<table border="1"> <tr> <td>WEB UI</td> <td>HTTP/HTTPS, status, configuration, local firmware updates, troubleshooting, Syslog</td> </tr> <tr> <td>FOTA upgrades</td> <td>Cloud platform server update</td> </tr> <tr> <td>SSH/TELNET</td> <td>SSH(v1,v2), telnet</td> </tr> <tr> <td>TR-069</td> <td>OpenACS, EasyCwm p, ACSLite, tGem, Libre ACS, Genie ACs, Free ACS, LibCWMP, Friendly tech(customizable)</td> </tr> <tr> <td>SNMP Network Management</td> <td>SNMP(v1, v2, v3)(customizable)</td> </tr> <tr> <td>Remote Interface Protocol</td> <td>API management based on HTTP/HTTPS (customizable)</td> </tr> <tr> <td>MODBUS</td> <td>MODBUS TCP Status/Control (customizable)</td> </tr> </table>	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)
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Interface



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