



5G industrial wireless routers

Model: **T300**

Version: HW3-CN-5GA-W5-RS485

Product Introduction:

The 5G industrial-grade router is an IoT gateway device that supports multiple ways of accessing the Internet (Ethernet/Wi-Fi client/5G), various local data access (WIFI 2.4G/5.8G/Ethernet/(customizable RS232/RS485)), and full-stack intelligent protocols. The device is equipped with wide-area network communication, VPN tunnels, WIFI local networks, and transparent transmission of RS232/485 functions, and provides customers with open-source codes for various device compatibility, enabling seamless connections of wireless local networks, Ethernet, intelligent hardware, and wireless wide-area networks, providing users with high-speed, secure, and reliable access services. 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: HW3-CN-5GA-W5-S1-RS485; Version HW3, 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	284*195*76mm (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 Protection grade	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
Antenna	N-headed female connector
Storage memory	Storage :16MB, memory: 128MB
Authentication	CE, FCC
Power consumption (current)	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)	284*195*76mm
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 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)

○ 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



Omnidirectional fiberglass
antenna



Certificate of conformity *1