



4G ODU

WS1610-H

AX3000 4G ODU

Overview

4G Smart ODU System , is based on brand-new embed platform, it can be satisfied with growing-up mobile connections requirements and provides the fast speed beyond your imagination.

The ODU is compatible with 4G dual-mode, suits to all network types all over the world, it means you just plug and play it and enjoy the ultra-fast broadband connection at any places.

ODU brings new ways to experience VR/AR/4K/8K streaming freely and easily. Built-in 802.11ax (Wi-Fi 6) Technology,

ODU 4G, the waterproof level is up to IP67, the appearance is exquisite and beautiful, and it is suitable for various installation methods: wall hanging, pole holding.

Features and functions

1、 Signal Receiving and Transmitting: 4G ODU is mainly responsible for receiving 4G signals from the base station, amplifying the signals and transmitting them to the IDU. At the same time, it also sends the signals transmitted from the IDU back to the base station.

- 2、 High weather resistance: Since the ODU is installed outdoors, it is designed with weather resistance in mind, and is able to work normally under various harsh weather conditions, such as high temperature, low temperature, rain and snow.
- 3、 High-speed data transmission: Supporting the high bandwidth and low-latency characteristics of 4G networks, it is able to provide fast data transmission rates, which is suitable for high-demand applications such as high-definition videos and online games.
- 4、 Network Coverage Optimization: With ODU's high gain antenna and flexible mounting position, it can optimize the coverage of 4G signals and improve network quality.
- 5、 PoE power supply: Many 4G ODU devices support power over Ethernet (Power over Ethernet), simplifying installation and wiring.
- 6、 Multi-device connectivity: supports connecting multiple IDUs or terminal devices, suitable for home, office, small business and other scenarios.



Features

4G

Qualcomm™
modem

IP66

AX3000
Waterproof grade IP67



2.5G WAN/LAN Port

SIM

2*Nano SIM

Appearance



Application scenarios



Village



pier



security monitor



Park



Technical Specifications

WS1610 Hardware Specifications	
Hardware Specifications	MT7981B+MT7976CN Dual Core 1.2GHZ DDR4 memory 1GB SPI NAND FLASH 256MB
WIFI Chip	MT7976CN IEEE 802.11n/g/b/a/ac/ax,Max. 3000Mbps
Protocol Standards	IEEE802.11n/g/b/a/ac/ax,IEEE802.3/802.3u
Wireless Rate	Dual-band concurrent up to 3000Mbps
Operating band	2.4GHz 5.8GHz
Antenna	2PCS 8Dbi 4G Antenna 4PCS 8Dbi wifiAntenna
LTE	LTE-FDD B1/ 3/ 7/ 8/ 20/ 28
	LTE-TDD B38/ 40/ 41
UMTS	WCDMA B1/ 3/ 5/ 8
LTE	DL 150Mbps; UL 50Mbps
Output Power	11n: 17dBm±1dBm 11g: 17dBm±1dBm 11b: 19dBm±1dBm 11a: 19dBm±1dBm 11ac: 18dBm±1dBm 11AX: 19dBm±1dBm
Receiving sensitivity	11N HT20 MCS7: -72dBm 11N HT40 MCS7: -69dBm 11G 54Mbps: -74dBm 11B 11Mbps: -86dBm 11A 54Mbps: -73dBm 11AC VHT20 MCS8: -66dBm 11AX VHT20 MCS8: -66dBm
Antenna	4 x 8dbi high gain omni-directional wifi antennas, 4 x 8dbi high gain omni-directional 4G antennas
Interface	1*2.5G WAN\LAN port with automatic MDI/MDIX with LED 1*10/100M/1000M LAN ports, auto MDI/MDIX with LED 1*M.2 1*MINIPCIE 1*SD

	1*SIM card
waterproof rating	IP67
Anti-vibration	ETS 300 019-1-5 class 5M3
LED	WIFI
Button	1 Reset button,
Power adapter	POE 48V
Maximum power consumption	< 24W
Color scheme	silvery
Accessories and Packaging	POE 48V Super Category 5 network cable *1PCS Bracket

WS1610-H Software Specifications	
Factory default settings	IP address:192.168.88.1 User/password:root/admin
WAN access mode	PPPoE, dynamic IP, static IP
Operation Mode	Router and AP mode; Smart Setup Wizard
DHCP Server	DHCP Server Client List. Static address assignment .
Wireless Security Settings	Wireless MAC address filtering 64/128 bit WEP encryption WPA-PSK, WPA2-PSK, WPA3-SAE, WPA/WPA2-PSK , WPA2-PSK/WPA3-SAE WPS (PBC)
Zerotier Applications	Support
TR-069	Support
VPN Private Network	L2TP/PPTP/Wireguard/GRE/Openvpn/ IPsec
Network Settings	Data switch, roaming switch, mode selection, default APN information,

	APN manual configuration FAILOVER function switch: PPPOE, DHCP, static 4G/5G Band lock, modify lmei number, support IPV4/IPV6/464XLAT
Intelligent QoS	Intelligent management of upload and download bandwidth
WiFi Settings	WiFi basic settings (dual-band, switch, wireless mode, SSID, PWD, encryption algorithm, channel, bandwidth, power adjustment)
SMS Function	SMS sending and receiving, SMS center settings, USSD
Guest Network	Guest network SSID, speed limit, startup time limit configuration
Advanced Settings	MAC address filtering, firewall, static routing, DDNS, virtual server, port forwarding, DMZ hosting, UPnP, domain name access control, MAC cloning settings
System Settings	System Status, Time Setting, Password Management, Configuration Management, Firmware Upgrade, Timed Reboot, System Log, LAN Setting, DHCP Binding, Reboot & Reset,
WS1610-H Other specifications	
Working Environment	Operating temperature: -30°C to 65°C. Storage temperature: -40°C to 70°C. Operating humidity: 10% to 90%RH non-condensing. Storage humidity: 5% to 90%RH non-condensing.