



5G Outdoor CPE Industrial Grade

Qualcomm Snapdragon x62



Applications:

For Home and Commercial Use

When indoor 5G signal is weak or not available, deploy an outdoor 5G CPE and use an IDU for indoor coverage.

For Industrial Use

Suitable for outdoor scenarios that require rapid deployment of broadband networks, such as outdoor cameras, outdoor HD video live streaming, mobile healthcare, industrial IoT, robotics, smart agriculture, and traffic command.



For Outdoor Video Monitoring

Best for outdoor 4K AI video monitoring

Key Features:

- Worldwide 5G and LTE-A coverage
- **3GPP Release 16**
- Both SA and NSA are supported
- **Support 2.5 Gigabit Ethernet port**
- Built-in high gain wide bandwidth antennas
- Advanced MIMO, AMC, OFDM support
- Built-in VPN and L2/L3 GRE client support
- IPv4 & IPv6 and Multiple PDN support
- Support NAT, Bridge and Router operation mode
- Standard TR-069 and SNMP Management

Hardware Specifications

Chipset	QualcommSDX62,ARMCortex-A7,1.8GHz
Memory	ROM: 4Gb Nand RAM: 4Gb LPDDR4
Indicators	PWR, SYS, Net ,LAN, WLAN
Buttons	Reset Button
Interfaces	1. 2.5GE POE Port * 1 2. SIM Slot * 1 (2FF) 3. USB 3.1 for Manufacture
LAN/WAN	2.5 GE Port * 1 10/100/1000/2500Mbps auto-sensing, auto-MDI/MDIX
Power Supply	POE power supply input.DC+12/1.5A~36V/0.5A
Standard Power	POE power supply input. DC24V/1A
Protection level	Ethernet port, Contact electric shock,+/-4KV,air discharge:+/-8KV.
Peak current	Max current.2.5A@12V
Working current	Max 225mA, 5.4W@24V
Power Consumption	< 24W
Dimensions	280(H)×165(W)×56(T)mm
Weight	700g
Waterproof & Dustproof	IP65
Operating Temperature	-30°C~70°C
Storge Temperature	-35°C~75°C



Operating humidity	95% Maxton-condensing
Storage humidity	95% Maxton-condensing

RF Specifications

Category	3GPP Release 16, 5G Sub-6G NR and LTE DL Cat19/ UL Cat18
Frequency Bands	<p>Version E</p> <p>5G NSA/SA: n1, n3, n5, n7, n8, n20, n28, n38, n40, n41, n48, n77, n78, n79</p> <p>FDD: B1, B3, B5, B7, B8, B18, B19, B20, B26, B28, B32</p> <p>TDD: B38, B39, B40, B41, B42, B43, B46, B48</p> <p>WCDMA: B1, B5, B8</p> <p>Version NA</p> <p>5G NSA/SA: n2, n5, n7, n12, n14, n25, n26, n30, n38, n41, n48, n66, n71, n77, n78, n79</p> <p>FDD: B1, B2, B4, B5, B7, B12, B13, B14, B17, B25, B26, B29, B30, B66, B71</p> <p>TDD: B38, B41, B42, B43, B46, B48</p> <p>WCDMA: B1, B2, B4, B5</p> <p>Version LA</p> <p>5G NSA/SA: n2, n4, n5, n7, n8, n28, n38, n66, n71, n78</p> <p>FDD: B2, B4, B5, B7, B8, B28</p> <p>TDD: B38, B42, B43, B66</p> <p>WCDMA: B2, B4, B5</p> <p>DL 4x4 MIMO for 5G NSA, SA, FDD and TDD</p>
3G/4G/5G Data rates	<p>5GNSA.Max3.4Gbps(DL)/600Mbps(UL)</p> <p>5GSA.Max2.4Gbps(DL)/1Gbps(UL)</p> <p>LTE.Max1.6Gbps(DL)/200Mbps(UL)</p> <p>HSPA+.Max42Mbps(DL)/5.76Mbps(UL)</p> <p>WCDMA Max384Kbps(DL)/384Kbps(UL)</p>
5G NR Features	<p>3GPPRelease16</p> <p>Supported modulations: -Uplink: $\pi/2$ BPSK, QPSK,16QAM,64QAMand256QAM-</p> <p>Downlink: QPSK,16QAM,64QAMand256QAM</p> <p>Supported SCS:15kHz 2 and 30kHz 2</p> <p>SA 3 and NSA 3 operation modes supported on all the 5G band</p> <p>Option 3x,3a,3 and Option2</p> <p>Maximum transmission data rates 4:-</p> <p>NSA: 3.4Gbps(DL)/550Mbps(UL)- SA: 2.4Gbps(DL)/900Mbps(UL)</p>
LTE Modulation	LTE Category: DL Cat19/ULCat18



	Supported modulations. -Uplink: QPSK,16QAM and 64QAM and 256QAM-Downlink: QPSK,16QAMand64QAMand256QAM Supports1.4/3/5/10/15/20MHz RF bandwidth Maximum transmission data rates.-1.6Gbps(DL)/ 200Mbps(UL)
3G/4G/5G Receiving Sensitivity	5GNR-FDDn1(20MHz),-94.3dBm 5GNR-FDDn2(20MHz),-94.3dBm 5GNR-FDDn3(20MHz),-94.5dBm 5GNR-FDDn5(10MHz),-95.5dBm 5GNR-FDDn7(20MHz),-94.7dBm 5GNR-FDDn8(20MHz),-96.2dBm 5GNR-FDDn12(15MHz),-96.7dBm 5GNR-FDDn13(10MHz),-97.6dBm 5GNR-FDDn14(10MHz),-98.7dBm 5GNR-FDDn18(15MHz),-98dBm 5GNR-FDDn20(20MHz),-96.9dBm 5GNR-FDDn25(20MHz),-94.6dBm 5GNR-FDDn26(20MHz),-95dBm 5GNR-FDDn28(20MHz),-96dBm 5GNR-FDDn30(10MHz),-95.4dBm 5GNR-TDDn38(20MHz),-93.4dBm 5GNR-TDDn40(20MHz),-93.8dBm 5GNR-TDDn41(100MHz),-85.8dBm 5GNR-TDDn66(40MHz),-92.3dBm 5GNR-TDDn71(20MHz),-96.5dBm 5GNR-TDDn77(100MHz),-87.4dBm 5GNR-TDDn78(100MHz),-87.8dBm 5GNR-TDDn79(100MHz),-87.2dBm
3G/4G/5G Transmitting Power	Class3(24dBm+1/-3dB) for WCDMA bands. Class3(23dBm±2dB) for LTE-FDD bands. Class3(23dBm±2dB) for LTE-TDD bands. Class3(23dBm±2dB) for5G NR bands. Class2(26dBm±2dB) for LTE B38/B40/B41/B42 bands. Class2(26dBm±2dB) for 5G NR n41/n77/n78/n79 bands.
Output Power@25°C	5G NR: 23± 1.5dBm * N41/77/78: 26±1.5dBm LTE: 23±1.5dBm
5G/4G Antenna	4*4G/5G internal antenna,4*4MIMO,with 50Ω impedance.
SIM card	Supports1*SIM slots,1.8V/3V.Or 1*eSIM card.(Optional)
GPS Feature (Optional)	Supports dual-band GNSS: L1 and L5 Supports GPS, GLONASS, BDS, Galileo and QZSS Protocol: NMEA0183 Data update rate:1Hz

Software Description

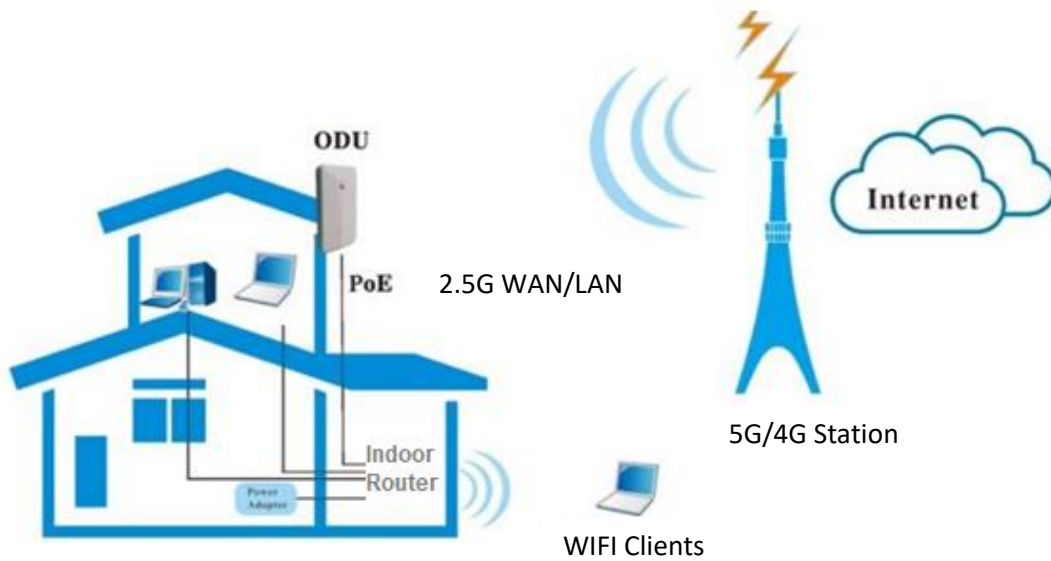
Status indicator	SIM Card Status, Data transmission, Signal Strength, Language
Internet Status	Internet Status, Operator, Network Mode, Cell ID, RSRP, RSRQ
WAN or Air interface	Multi-APN support, maximum 4 PDN can be active at the same time; can set the static router for each APN. IP pass through support IPv4/v6 dual stack support
LAN	DHCP Server/Client support DNS and DNS proxy support Multicast/Multicast Proxy support
Rate Info	DL/UL Data Rate, Online Time



Device & SIM Info	Product Model, IMEI, Software Version, UICCID, IMSI
Statistics	CPU Usage, Memory Usage, APN List, Bandwidth Statistics Throughput Statistics
Device Information	System Information Version Information LAN Status
WAN Settings	Network Mode: NAT, Bridge, Router
NR/LTE Settings	Connect Method, Roaming Switch, LTE/NR Network Status
Scan Mode	Full Band, Band Lock, Earfcn Lock, PCI Lock
APN Management	APN Settings APN List
LAN Settings	LAN Host Settings DHCP Settings
Firewall	Firewall switch MAC Address Filtering IP Address Filtering URL Filtering Access Control Parent Control HTTPS Login from WAN or LAN DoS attack protection Sync Flood attack protection Up to three different level users' authority.
VPN	IPSec, PPTP, L2TP, GRE and VPN pass-through
Device Management	Local management web page. SSH or Telnet CLI. SNMP V1/V2 or TR069 remote management. Software upgrade via WEB/ TR069 / FOTA Diagnostics. USIM PIN management and card authentication
IPv6	IPv4v6 Dual Stack supported
Other Functions	DMZ, SIM lock, PIN management DDNS
Maintenance	Scheduled Reboot, Reboot, Reset
TR069	Support HTTP/HTTPS url Support remote upgrade Support cycle monitor Support TR143 for remote test Support STUN for Nat pass through
NTP	Auto, Manual, DST
Diagnostics	Ping, Traceroute, Iperf
Syslog	8 levels for debugging
WEB Settings	Manage the web access settings
Account	Account management
Embedded System	OpenWRT 19.07



Topology



Box contents:

- 1 x 5G CPE Device
- 1 x 1M Ethernet Cable
- 1 x AC 100~240V, DC 24V 1A power adapter
- 2 x pole mounting metal loops
- 2 x Extend Screws
- 1 x Quick Start Guide