FiberHome

CPE

Product
Brochure

CATALOGUE
2026

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WA562
5G Indoor CPE

Leading indoor wireless broadband access equipment

Key Features

- 3GPP Release 16

- Worldwide 5G and LTE-A coverage

- Both SA and NSA are supported

- 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

- Supports DMZ

- Support NAT, Bridge and Router operation mode

- Standard TR-069 Management

- Support WiFi6, 802.11b/g/n/ac/ax, 2*2 MIMO@2.4GHz&5GHz

- Support DFOTA* and VoLTE* (optional)

Cellular Specifications

Category	3GPP Release 16		
Solution	Qualcomm IPQ5018+SDX62		
Frequency Bands	Variant for Europe/Asia	5G NR	n1/n3/n5/n7/n8/n20/n28/n38/n40//n41/n75/n76/n77/n78
		LTE-FDD	B1/B3/B5/B7/B8/B20/B28/B32
		LTE-TDD	B38/B40/B41/B42/B43
		WCDMA	B1/B5/B8
	Variant for North America	5G NR	n2/n5/n7/n12/n13/n14/n25/n26/n29/n30 /n38/n41/n48/n66/n70/n71/n77/n78
		LTE-FDD	B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B29/B30/B66/B71
		LTE-TDD	B38/B41/B42/B43/B48
		WCDMA	B1/B5/B8
5G/4G Tx / Rx	1T2R/1T4R/2T4R		
LTE Transmit Power	5G NR: 23：1.5dBm (Class3) * N41/77/78/79: 26：1.5dBm (HPUE Class2) LTE: 23：1.5dBm (Class3)		
Peak throughput	5G SA Sub-6 GHz: 2.4Gbps (DL)/ 900Mbps (UL) 5G NSA Sub-6 GHz: 3.2Gbps (DL)/ 600Mbps (UL) LTE: 1.6Gbps (DL)/ 200Mbps (UL) WCDMA: 42 Mbps (DL)/5.76 Mbps (UL)		
Cellular Antenna	4 Built-in 5G&4G antennas with peak 6dBi gain		
Wi-Fi Frequency	2.4GHz&5GHz dual bands with WiFi6 802.11b/g/n/ac/ax		
Wi-Fi Antenna	Built-in 3dBi Wi-Fi antennas, 2.4GHz and 5GHz separate		
Wi-Fi Transmit Power	17dBm/2.4G and 18dBm/5G		
Wi-Fi Channel Bandwidth	2.4GHz: 20/40MHz 5GHz: 20/40/80/160MHz		
Wi-Fi MIMO	2x2 MIMO		

Hardware Specifications

Solution	Qualcomm IPQ5018＋SDX62
Flash	8Gb
RAM	8Gb
External port	2*Gigabit RJ45 LAN Ports 10/100/1000 auto-sensing, auto-MDI/MDIX 1*RJ11 voice port for VoIP or VoLTE
LED Indicators	8 LED Indicators (PWR, Wi-Fi, Internet, TEL, RF Signal*4)
SIM	1 3FF USIM/SIM slot(1.8V/3V)
Button	Tact switch with Reset/Reboot button
Power supply	AC 100~240V DC 12V 2A
Power consumption	<20W
Dimensions	228mm x 190mm x 71mm
Weight	<650g
Humidity	5% - 95%
Temperature	Operating: -10℃~ 55℃ Storage: -40℃ ~ 85℃

Appendix-Delivers

1*Assembled product
1*Ethernet cable, 1M
1*12V/2A
1*Quick User Guide

WAN	Multi-APN support, maximum four
	Multi-PDN
	IPv4/v6 dual stack
	IP pass through
LAN	DHCP Server, Client
	DNS and DNS proxy
	DMZ
	Multicast/Multicast Proxy
	MAC Address Filtering
Device Management	TR069
	SNMP v1, v2, v3
	Web UI
	Software upgrade via WEB / FTP server / TR069 / FOTA
	Diagnostics
	USIM PIN management and card authentication
Routing Mode	Route Mode
	Bridge Mode
	NAT mode Static Route
	Port Mirror and port forwarding ARP
	IPv4, IPv6 and IPV4/IPv6 Dual Stack
VPN	IPSec
	PPTP
	GRE tunnel
	L2TPv2 and L2TPv3
	VPN pass-through
Security	Firewall
	MAC Address Filtering
	IP Address Filtering
	URL Filtering
	Access Control
	HTTPS Login from WAN
	Dos attack protection
	Three level of user authority
Reliability	Watchdog for automatic recovery
	Auto rollback to previous version when upgrade fail

WA562M
5G Indoor CPE

Leading indoor wireless broadband access equipment

Key Features

- 3GPP Release 16
- Worldwide 5G and LTE-A coverage
- Support 5G NSA and SA modes
- Built-in high gain wide bandwidth antennas
- Powerful software features, support NAT, Bridge and Route mode
- IPv4&IPv6 and Multiple PDN support
- Built-in VPN and L2/L3 GRE client support
- WEB, TR069 and SNMP based device management
- FOTA
- Wi-Fi6 @2.4GHz&5GHz , AX3000
- Powerful IPQ5018&SDX62 chip platform

Cellular Specifications

Category	3GPP Release 16		
Solution	Qualcomm IPQ5018+SDX62		
Frequency (Customized）	Variant for Europe/Asia	5G NR	n1/n3/n5/n7/n8/n20/n28/n38/n40//n41/n75/n76/n77/n78
		LTE-FDD	B1/B3/B5/B7/B8/B20/B28/B32
		LTE-TDD	B38/B40/B41/B42/B43
		WCDMA	B1/B5/B8
	Variant for North America	5G NR	n2/n5/n7/n12/n13/n14/n25/n26/n29/n30 /n38/n41/n48/n66/n70/n71/n77/n78
		LTE-FDD	B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B29/B30/B66/B71
		LTE-TDD	B38/B41/B42/B43/B48
		WCDMA	B1/B5/B8
5G/4G Tx / Rx	1T2R/1T4R/2T4R		
LTE Transmit Power	5G NR: 23：1.5dBm (Class3) * N41/77/78/79: 26：1.5dBm (HPUE Class2) LTE: 23：1.5dBm (Class3)		
Peak throughput	5G SA Sub-6 GHz: 2.4Gbps (DL)/ 900Mbps (UL) 5G NSA Sub-6 GHz: 3.2Gbps (DL)/ 600Mbps (UL) LTE: 1.6Gbps (DL)/ 200Mbps (UL) WCDMA: 42 Mbps (DL)/5.76 Mbps (UL)		
Cellular Antenna	4 Built-in 5G&4G antennas with peak 6dBi gain		
Wi-Fi Frequency	2.4GHz&5GHz dual bands with WiFi6 802.11b/g/n/ac/ax		
Wi-Fi Antenna	Built-in 3dBi Wi-Fi antennas, 2.4GHz and 5GHz separate		
Wi-Fi Transmit Power	17dBm/2.4G and 18dBm/5G		
Wi-Fi Channel Bandwidth	2.4GHz: 20/40MHz 5GHz: 20/40/80/160MHz		
Wi-Fi MIMO	2x2 MIMO		

Hardware Specifications

Solution	Qualcomm IPQ5018+SDX62
Flash	8Gb
RAM	8Gb
External port	2*Gigabit RJ45 LAN Ports 10/100/1000 auto-sensing, auto-MDI/MDIX
LED Indicators	8 LED Indicators (PWR, Wi-Fi, Internet, TEL, RF Signal*4)
SIM	1 3FF USIM/SIM slot(1.8V/3V) 1xeSIM Slot (optional)
Button	Tact switch with Reset/Reboot button
Power supply	AC 100~240V DC 12V 2A
Power consumption	<20W
Dimensions	228mmx 173 mmx 71mm
Weight	<650g
Humidity	5% - 95%
Temperature	Operating: -10℃~55℃ Storage: -40℃ ~ 85℃

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WAN	Multi-APN support, maximum four
	Multi-PDN
	IPv4/v6 dual stack
	IP pass through
LAN	DHCP Server, Client
	DNS and DNS proxy
	DMZ
	Multicast/Multicast Proxy
	MAC Address Filtering
Device Management	TR069
	SNMP v1, v2, v3
	Web UI
	Software upgrade via WEB / FTP server / TR069 / FOTA
	Diagnostics
	USIM PIN management and card authentication
Routing Mode	Route Mode
	Bridge Mode
	NAT mode Static Route
	Port Mirror and port forwarding ARP
	IPv4, IPv6 and IPV4/IPv6 Dual Stack
VPN	IPSec
	PPTP
	GRE tunnel
	L2TPv2 and L2TPv3
	VPN pass-through
Security	Firewall
	MAC Address Filtering
	IP Address Filtering
	URL Filtering
	Access Control
	HTTPS Login from WAN
	Dos attack protection
	Three level of user authority
Reliability	Watchdog for automatic recovery
	Auto rollback to previous version when upgrade fail

WA565

5G Indoor CPE

Leading indoor wireless broadband access equipment

Key Features

- 3GPP Release 16

- Worldwide 5G and LTE-A coverage

- Both SA and NSA are supported

- 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

- Supports DMZ

- Support NAT, Bridge and Router operation mode

- Standard TR-069 Management

- Support WiFi6, 802.11b/g/n/ac/ax, 2*2 MIMO@2.4GHz&5GHz

- Support DFOTA* and VoLTE/VoIP* (optional)

Cellular Specifications

Category	3GPP Release 16		
Solution	Qualcomm IPQ5018+SDX65		
Frequency Bands	Variant for Europe/Asia	5G NR	n1/n3/n5/n7/n8/n20/n28/n38/n40//n41/n75/n76/n77/n78
		LTE-FDD	B1/B3/B5/B7/B8/B20/B28/B32
		LTE-TDD	B38/B40/B41/B42/B43
		WCDMA	B1/B5/B8
	Variant for North America	5G NR	n2/n5/n7/n12/n13/n14/n25/n26/n29/n30 /n38/n41/n48/n66/n70/n71/n77/n78
		LTE-FDD	B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B29/B30/B66/B71
		LTE-TDD	B38/B41/B42/B43/B48
		WCDMA	B1/B5/B8
5G/4G Tx / Rx	1T2R/1T4R/2T4R		
LTE Transmit Power	5G NR: 23 : 1.5dBm (Class3) * N41/77/78/79: 26 : 1.5dBm (HPUE Class2) LTE: 23 : 1.5dBm (Class3)		
Peak throughput	5G SA Sub-6 GHz: 4.2Gbps (DL)/ 450Mbps (UL) 5G NSA Sub-6 GHz: 3.3Gbps (DL)/ 600Mbps (UL) LTE: 2.0Gbps (DL)/ 200Mbps (UL) WCDMA: 42 Mbps (DL)/5.76 Mbps (UL)		
Cellular Antenna	4 Built-in 5G&4G antennas with peak 6dBi gain		
Wi-Fi Frequency	2.4GHz&5GHz dual bands with WiFi6 802.11b/g/n/ac/ax		
Wi-Fi Antenna	Built-in 3dBi Wi-Fi antennas, 2.4GHz and 5GHz separate		
Wi-Fi Transmit Power	17dBm/2.4G and 18dBm/5G		
Wi-Fi Channel Bandwidth	2.4GHz: 20/40MHz 5GHz: 20/40/80/160MHz		
Wi-Fi MIMO	2x2 MIMO		

Hardware Specifications

Solution	Qualcomm IPQ5018+SDX65
Flash	4 Gb
RAM	4 Gb
External port	1*GE RJ45 LAN Port 10/100/1000 auto-sensing, auto-MDI/MDIX 1*2.5GE RJ45 WAN/LAN Port 10/100/1000/2500 auto-sensing, auto-MDI/MDIX 1*RJ11 voice port for VoLTE/VoIP(Optional)
LED Indicators	8 LED Indicators (PWR, Wi-Fi, Internet, TEL, RF Signal*4)
SIM	1 3FF USIM/SIM slot(1.8V/3V) 1xeSIM Slot (optional)
Button	Tact switch with Reset/Reboot button
Power supply	AC 100~240V DC 12V 2A
Power consumption	<20W
Dimensions	228mmx 190mmx 71mm
Weight	<650g
Humidity	5% - 95%
Temperature	Operating: -10℃~ 55℃ Storage: -40℃ ~ 85℃

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	Multicast/Multicast Proxy
	MAC Address Filtering
Device Management	TR069
	SNMP v1, v2, v3
	Web UI
	Software upgrade via WEB / FTP server / TR069 / FOTA
	Diagnostics
	USIM PIN management and card authentication
Routing Mode	Route Mode
	Bridge Mode
	NAT mode Static Route
	Port Mirror and port forwarding ARP
	IPv4, IPv6 and IPV4/IPv6 Dual Stack
VPN	IPSec
	PPTP
	GRE tunnel
	L2TPv2 and L2TPv3
	VPN pass-through
Security	Firewall
	MAC Address Filtering
	IP Address Filtering
	URL Filtering
	Access Control
	HTTPS Login from WAN
	Dos attack protection
	Three level of user authority
Reliability	Watchdog for automatic recovery
	Auto rollback to previous version when upgrade fail

WA566

5G Indoor CPE

Leading indoor wireless broadband access equipment

Key Features

- 3GPP Release 16

- Advanced 4x4 MIMO with Category 19 throughput

- 4 GE LAN ports

- 1 VoLTE/VoIP/VoNR Line(Optional)

- 802.11b/g/n/ax multiband band MIMO Wi-Fi support

- VPN & full L2/L3 GRE Tunneling client's support

- Router, bridge, and by-pass networking, IPv4 &v6 and Multiple PDN support

- FTP, HTTP, HTTPS and TR-069 management support

- Cost effective & compact design with built-in high gain 4x4 wide band antenna

Technical Specifications

Physical	Dimensions	183mmx 193mmx 56mm
	Weight	< 700g
	Power consumptions	< 18W
	Power Supply	12V/2.0A DC Adapter
Environmental	Operating Temperature	-15℃ to 55℃
	Storage Temperature	-40℃ to 85℃
	Humidity	90% max non-condensing
Wireless Radio Interface	Radio Access	3GPP Release 16 5G NSA/SA 5G NR Sub-6G LTE-TDD/LTE-FDD/WCDMA
	Solution	Qualcomm SDX62+WCN6856
	Operation Mode	5G 4x4 MIMO LTE 4x4 MIMO 1700~3800MHz LTE 2x2 MIMO 617~960MHz
	Frequency Band	5G NSA n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n48/n77/n78/n79 5G SA n1/n3/n5/n7/n8/n20/n26/n28/n38/n40/n41/n48/n77/n78/n79 LTE-FDD B1/B3/B5/B7/B8/B18/B19/B20/B26/B28/B32 LTE-TDD B38/B39/B40/B41/B42/B43/B46*/B48 WCDMA B1/B5/B8
	Modulations	QPSK/QAM16/QAM64/QAM256
	CA Support	Up to 5CC
	Receive Sensitivity	Compliance with 3GPP standard
	Output Power	5G NR: 23 : 1.5dBm * N41/77/78: 26 : 1.5dBm LTE: 23 : 1.5dBm
	Antenna Gain	2-6dBi
Wi-Fi Interface	Radio Access	IEEE802.11b/g/n/ax
	MIMO	2 x 2 DBDC
	Output Power	15dBm
	Antenna	3-5dBi Built-in antenna
	Connected Users	32
	Security	64/128-bit WEP, WPA/WPA2

User Interface	Data Interface	4 RJ45 GE ETH Ports, 1 USB 3.0 Port
	Line Interface	1 RJ11 Port
	LED Indicators	SYS, NET, RF（4LEDs）, Wi-Fi, MESH, LINE
	SIM Support	1.8V/3.0V USIM 2FF 1xeSIM Slot (optional)
VoLTE/VoIP/VoNR Support(Optional)	Basic Call	AMR-NB & AMR-WB Caller ID Name & Number display
	Supplementary Call Features	Communication Forwarding Barring of Incoming/Outgoing Calls Communication Hold & Waiting Ad-Hoc 3-Party Conference Message Waiting Indication Communication Diversion/Forward
	DSP Processing	Adaptive Multi-Rate speech codec (AMR) AMR wideband codec Narrowband 8KHz & Wideband 16KHz Support DTMF Tone Generation and Detection Call Progress Tone Generation
SW Specifications	Networking Configuration	Router and L3 Bridge Operation Support Built-in DHCP Server for LAN Devices IPv4, and IPv6 DS-Lite Support for LTE Multiple PDN Interface Support
	Data Networking Features	VPN Pass-through support (PPTP, L2TP & IPsec) Built-in L2TP & GRE Tunneling Client Support DNS Proxy Support Firewall & Access Control DMZ and Virtual Server Support IP and Port Forwarding Support Local and Remote Management Restriction Application Firewall Support NTP Service Support LAN Device Access Control
	Device Management	CLI, Telnet, HTTP and HTTPS Management Interfaces Standard Based TR-069 Management FTP and HTTP OTA Firmware Upgrade USIM and PLMN Locking Support Device Factory Default Setting

WA2000
5G Indoor CPE

Leading indoor wireless broadband access equipment

Key Features

- Cost effective & compact design with built-in high gain

  4x4 wide band antenna (617-3800MHz)

- Compliant to 3GPP Release 15 specifications

- 802.11b/g/n/ac dual band MIMO WiFi support

- Router and IP-passthrough networking capability, IPv4

  & IPv6, and Multiple PDN support

- VPN & full L2/L3 GRE Tunneling client's support

- Wireless fallback support for networking redundancy

- FTP, HTTP, HTTPS and TR-069 management support

- 4 GE LAN ports

- 1 RJ11 Port

WA2000 is a cost effective and high performance 5G NSA/SA 5G NR Sub-6G indoor Wi-Fi & VoLTE CPE

product specially designed to enable quick and easy 5G/4G/3G fixed data service deployment for residential

and SOHO customers. It provides high speed LAN, Wi-Fi and VoLTE/VoNR integrated services to end users

who need both bandwidth and multi-media data service in residential homes or enterprises.

RELIABLE PERFORMANCE

WA2000 is an advanced multiport indoor Wi-Fi & VoLTE/VoNR CPE based on the standard implementation

of 3GPP Release 15 specifications. With built-in high gain LTE antenna, it enables a longer reception range

from the base station. This yields more efficient use of the network with a larger cell reach, guaranteed carrier

class service, and customer service probability.

The device has 4 GE LAN ports, 1 RJ11 analog phone port, high performance 4x4 MIMO and CA capabilities,

802.11b/g/n/ac dual band Wi-Fi, advanced routing and firewall software for security. It provides an effective

all-in-one solution to SOHO or residential customers. It can deliver up to 1Gbps max data throughput which

can be very competitive to wired broadband access service.

EASY USAGE & MANAGEMENT

WA2000 is a user-friendly 5G CPE and very easy to configure and setup. Subscribers can just connect the

device to their computer or home switch/router and the device is ready to offer an experience of surfing over

Internet. The external antenna option gives user the capability to extend coverage using external high gain

antenna. The LEDs on the WA2000 have also been designed for user convenience, and offer a clear sign of

what the device is doing. The compact design is well suited for enterprise and residential users.

WA2000 offers rich management features which facilitate the task of service provider. It supports local

management access, Telnet, WEB, and centralized remote OTA configuration, upgrades management and

device monitoring via standard TR-069 ACS system.

TECHNICAL FEATURES

WA2000 is fully compliant to the LTE specification. It offers standard support for advanced features such as

Carrier Aggregation, MIMO and AMC to maximize the system capacity and bandwidth throughput. The use

of OFDM modulation enhances performance in non-line-of-sight conditions to ensure immunity to

interference and multi-path conflicts typical of deployments in urban areas. Sophisticated QoS capabilities

ensure true end-to-end QoS and support for high quality data services.

Category	Spec	Value
Physical	Dimensions	180mmx 150mmx 48mm
	Weight	< 350g
	Power consumptions	< 15W
	Power Supply	12V/2A DC Adapter
Environmental	Operating Temperature	-15℃ to 55℃
	Storage Temperature	-40℃ to 85℃
	Humidity	90% max non-condensing
Radio Interface	Radio Access	3GPP Release 15, 5G NSA/SA 5G NR Sub-6G, LTE-TDD/LTE-FDD/WCDMA
	Chipset	UNISOC UDX710
	Operation Mode	5G DL 4 × 4 MIMO：n1/ 3/ 7/ 28 / 38/ 40/ 41/ 66/ 77/ 78 5G UL 2 × 2 MIMO：n38/ 40/ 41/ 77/ 78 5G DL 2 × 2 MIMO：n5/ 8/ 20 4G LTE DL 2x2 MIMO： B1/ 2/ 3/ 4/ 5/ 7/ 8/ 20/ 28/ 38/ 40/ 41/ 66
	Frequency Band (Customizable)	5G NSA n1/n3/n7/n28/n38/n40/n41/n77/n78 5G SA n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n66/n71*/n77/n78 LTE-FDD B1/B2/B3/B4/B5/B7/B8/B20/B28/B66 LTE-TDD B38/B40/B41 WCDMA B1/B2/B5/B8
	Modulations	QPSK/QAM16/QAM64/QAM256
	CA Support	Up to 3CC (DL CAT12, UL CAT13)
	Receive Sensitivity	Compliance with 3GPP standard
	Output Power	23dBm±2dB
	Antenna Gain	2-6dBi
	External Antenna	Optional
WiFi Interface	Radio Access	IEEE802.11b/g/n/ac
	MIMO	2 x 2 (1200Mbps)
	Output Power	15dBm
	Antenna	3-5dBi Built-in antenna
	Connected Users	32
	Security	64/128-bit WEP, WPA/WPA2
User Interface	Data Interface	4 RJ45 GE ETH Port
	Line Interface	1 RJ11 Port
	LED Indicators	SYS, NET, RF, 2.4GHz Wi-Fi, 5GHz Wi-Fi, LINE
	SIM Support	1.8V/3.0V USIM 2FF

VoLTE Services (Optional)	Basic Call	AMR-NB & AMR-WB, Caller ID Name & Number display
	Supplementary Call Features	Communication Forwarding
		Barring of Incoming/Outgoing Calls
		Communication Hold & Waiting
		Ad-Hoc 3-Party Conference
		Message Waiting Indication
		Communication Diversion/Forward
	DSP Processing	Adaptive Multi-Rate speech codec (AMR)
		AMR wideband codec
		Narrowband 8KHz & Wideband 16KHz Support
		DTMF Tone Generation and Detection
		Call Progress Tone Generation
SW Specifications	Networking Configuration	Router and L3 Bridge Operation Support
		Built-in DHCP Server for LAN Devices
		IPv4,and IPv6 DS-Lite Support for LTE
		Multiple PDN Interface Support
	Data Networking Features	VPN Pass-through support (PPTP, L2TP & IPsec)
		Built-in L2TP & GRE Tunneling Client Support
		DNS Proxy Support
		Firewall & Access Control
		DMZ and Virtual Server Support
		IP and Port Forwarding Support
		Local and Remote Management Restriction
		Application Firewall Support
		NTP Service Support
		LAN Device Access Control
	Device Management	CLI, Telnet, HTTP and HTTPS Management Interfaces
		Standard Based TR-069 Management
		FTP and HTTP OTA Firmware Upgrade
		USIM and PLMN Locking Support
		Device Factory Default Setting

WA3000
5G Indoor CPE

Leading indoor wireless broadband access equipment

Key Features

- Cost effective & compact design with built-in high gain 4 x 4 wide band antenna

- Compliant to 3GPP Release 15 specifications

- Advanced 4x4 MIMO

- Two GE LAN ports, VoLTE/ VoNR Line and Wi-Fi6 dual-band support

- Router and IP-passthrough networking capability, IPv4 & IPv6, and Multiple PDN support

- VPN & full L2/L3 GRE Tunneling clients support

- Wireless fallback support for networking redundancy

- FTP, HTTP, HTTPS and TR-069 management support

WA3000 is a most advanced 5G NSA/SA 5G NR Sub-6G indoor Wi-Fi & VoLTE/VoNR CPE product specially designed to enable quick and easy 5G/4G/3G fixed data service deployment for residential and SOHO customers. It provides high speed LAN, Wi-Fi and VoLTE/VoNR integrated services to end users who need both bandwidth and multi-media data service in residential homes or enterprises.

RELIABLE PERFORMANCE

WA3000 is an advanced multiport indoor Wi-Fi and VoLTE/VoNR CPE based on the standard implementation of 3GPPRelease 15 specifications. With built-in high gain LTE antenna, it enables a longer reception range from the base station. This yields more efficient use of the network with a larger cell reach, guaranteed carrier class service, and customer service probability.

The device has two Gigabit LAN ports, one RJ11 analog phone port, high performance 4x4 MIMO and CA capabilities, 802. 11b/g/n/ax multiband Wi-Fi, advanced routing and firewall software for security. It provides an effective all-in-one solution to SOHO or residential customers. It can deliver up to 1Gbps max data throughput which can be very competitive to wired broadband access service.

EASY USAGE & MANAGEMENT

WA3000 is a user-friendly 5G NSA/SA 5G NR Sub-6G CPE and very easy to configure and setup. Subscribers can just connect the device to their computer or home switch/router and the device is ready to offer an experience of surfing over Internet. The LEDs on the WA3000 have also been designed for user convenience, and offer a clear sign of what the device is doing. The compact design is well suited for enterprise and residential users.

WA3000 offers rich management features which facilitate the task of service provider. It supports local management access, Telnet, WEB, and centralized remote OTA configuration, upgrades management and device monitoring via standard TR-069 ACS system.

TECHNICAL FEATURES

WA3000 is fully compliant to the 3GPP release 15 specifications. It offers standard support for advanced features such as Carrier Aggregation, MIMO and AMC to maximize the system capacity and bandwidth throughput. The use of OFDM modulation enhances performance in non-line-of-sight conditions to ensure immunity to interference and multi-path conflicts typical of deployments in urban areas. Sophisticated QoS capabilities ensure true end-to-end QoS and support for high quality data services.

Technical Specifications

Physical	Dimensions	133mmx 75mmx 200mm
	Weight	< 700g
	Power consumptions	< 15W
	Power Supply	12V/2A DC Adapter
Environmental	Operating Temperature	-15℃ to 55℃
	Storage Temperature	-40℃ to 85℃
	Humidity	90% max non-condensing
Wireless Radio Interface	Radio Access	3GPP Release 15, 5G NSA/SA 5G NR Sub-6G, LTE-TDD/LTE-FDD/WCDMA
	Chipset	UNISOC UDX710
	Operation Mode	5G 4x4 MIMO (n1/3/7/38/40/41/77/78/79) LTE 2x2 MIMO
	Frequency Band	5G NSA n1/n3/n7/n38/n40/n41/n77/n78/n79 5G SA n1/n3/n5*/n7/n8/n20/n28/n38/n40/n41/n66/n71*/n77/n78 LTE-FDD B1/B2/B3/B4/B5/B7/B8/B20/B28A/B28B/B66 LTE-TDD B38/B40/B41, WCDMA B1/B2/B5/B8
	Modulations	QPSK/QAM16/QAM64/QAM256
	CA Support	4G: 5CC, and ENDC CA Support
	Receive Sensitivity	Compliance with 3GPP 15 standard
	Output Power	23dBm : 2dB
	Antenna Gain	2-6dBi
Wi-Fi Interface	Radio Access	IEEE802.11b/g/n/ax
	MIMO	2 x 2 DBDC (1.8Gbps, BW=160MHz)
	Output Power	15dBm
	Antenna	3-5dBi Built-in antenna
	Connected Users	32
	Security	64/128-bit WEP, WPA/WPA2/WPA3
User Interface	Data Interface	2 RJ45 GE ETH Port
	Line Interface	1 RJ11 Port
	LED Indicators	SYS, MOD, RF, Wi-Fi, LINE
	SIM Support	1.8V/3.0V USIM 3FF

VoLTE/VoNR Support (Optional)	Basic Call	AMR-NB & AMR-WB
		Caller ID Name & Number display
	Supplementary Call Features	Communication Forwarding
		Barring of Incoming/Outgoing Calls
		Communication Hold & Waiting
		Ad-Hoc 3-Party Conference
		Message Waiting Indication
		Communication Diversion/Forward
	DSP Processing	Adaptive Multi-Rate speech codec (AMR)
		AMR wideband codec
		Narrowband 8KHz & Wideband 16KHz Support
		DTMF Tone Generation and Detection
		Call Progress Tone Generation
SW Specifications	Networking Configuration	Router and L3 Bridge Operation Support
		Built-in DHCP Server for LAN Devices
		IPv4, and IPv6 DS-Lite Support for LTE
		Multiple PDN Interface Support
	Data Networking Features	VPN Pass-through support (PPTP, L2TP & IPsec)
		Built-in L2TP & GRE Tunneling Client Support
		DNS Proxy Support
		Firewall & Access Control
		DMZ and Virtual Server Support
		IP and Port Forwarding Support
		Local and Remote Management Restriction
		Application Firewall Support
		NTP Service Support
		LAN Device Access Control
	Device Management	CLI, Telnet, HTTP and HTTPS Management Interfaces
		Standard Based TR-069 Management
		FTP and HTTP OTA Firmware Upgrade
		USIM and PLMN Locking Support
		Device Factory Default Setting

WA510M
5G Indoor CPE
Leading indoor wireless broadband access equipment

Key Features

- 5G NR and LTE-A
- NSA and SA modes
- Support 5G 2CC 200M CA
- Worldwide Sub-6 5G and LTE-A coverage
- Built-in high gain wide bandwidth antennas
- Support 2x Gigabit Ethernet ports
- Wi-Fi 6 Supports 802.11ax, OFDMA, and MU-MIMO. Maximum 1.8Gbit/s throughputs
- Powerful software features, support NAT, Bridge and Route mode
- IPv4&IPv6 and Multiple PDN support
- Built-in VPN and L2/L3 GRE client support
- WEB, TR069 and SNMP based device management

Performance & Parameters

Chipset model	MTK T750
5G & 4G Standard	3GPP Release 15
Peak throughput	NSA TDD: Max. 3.74 Gbps (DL)/ 1.46 Gbps (UL)
Frequencies (Customized)	SA TDD: Max. 4.67 Gbps (DL)/ 2.5 Gbps (UL) 5G: n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78 4G: B1/B3/B5/B7/B8/B20/B28/B32/B38/B40/B41/B42/B43
Output Power	5G NR: 23：1.5dBm * N41/77/78: 26：1.5dBm LTE: 23：1.5dBm
MIMO	5G DL 4 × 4 MIMO on n1/n3/n7/n38/n40/n41/n77/n78,2CA 5G UL 2 × 2 MIMO on n41/n77/n78 LTE DL 4×4 MIMO on B1/B3/B7/B38/B40/B41/B42/B43
Modulation	5G Sub-6 DL: 256QAM, UL: 256QAM LTE DL:256QAM, UL:256QAM
5G/4G TX/RX	1T2R/ 1T4R/2T4R
WiFi	802.11b/g/n/ac/ax, WiFi6 AX1800, 2.4G&5.8GHz dual freq bands, 2x2MIMO
Security Support	Wi-Fi Security: WPA3, WPA2, WEP
I/O Port	1*1GE LAN/WAN + 1*1GE LAN 1*USIM Slot（3FF） 1*RESET 1*DC JACK
Basic Parameters	Device Type: 5G Sub-6 Indoor CPE Size：204 mm x 158mm x 41.5mm Working Temperature：0~45°C Water / Dust Proof：IP3X

WA510MU
5G Indoor CPE

Leading indoor wireless broadband access equipment

Key Features

- 3GPP Release 15
- Worldwide 5G and LTE-A coverage
- Support 5G NSA and SA modes
- Built-in high gain wide bandwidth antennas
- Powerful software features, support NAT, Bridge mode
- IPv4&IPv6 and Multiple PDN support
- Wi-Fi6 AX3000
- Build-in PPTP/IPSec/L2TPv2/L2TPv3/GRE VPN Client support
- WEB, TR069 and SNMP based device management
- FOTA

Specifications

Chipset model	IPQ5018+Unisoc V510	
5G & 4G Standard	3GPP Release 15	
LTE Category	DL CAT12, UL CAT13	
Peak throughput	SA: Max. 2 Gbps (DL)/ 1 Gbps (UL) NSA: Max. 2.6 Gbps (DL)/ 650Mbps (UL) LTE: Max. 600Mbps (DL)/ 150Mbps (UL) UMTS: Max. 42.2Mbps (DL)/ 11Mbps (UL)	
Frequencies (Customized）		**EA**	**CNV**
	5G NR NSA	n1/n3/n7/n28/n38/n40/n41/n77/n78	n41/n78/n79
	5G NR SA	n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n66/n77/n78	n1/n3/n5/n8/n28A/n41/n66/n77/n78/n79
	5G DL 4 x 4 MIMO	n1/n3/n7//n28/n38/n40/n41/n66/n77/n78	n1/n28A/n41/n77/n78/n79
	5G UL 2 x 2 MIMO	n38/n40/n41/n77/n78	n41/n77/n78/n79
	LTE-FDD	B1/2/3/4/5/7/8/20/28/66	B1/3/5/8
	LTE-TDD	B38/B40/B41	B34/B38/B41
	WCDMA	B1/B2/B5/B8	B1/B5/B8
Output Power	5G NR: 23：1.5dBm * N41/77/78: 26：1.5dBm LTE: 23：1.5dBm	
Modulation	5G Sub-6 DL: 256QAM, UL: 256QAM LTE DL:256QAM, UL:256QAM	
5G/4G TX/RX	1T2R/1T4R/2T4R	
WiFi	802.11b/g/n/ac/ax, WiFi6 AX 3000, 2.4G&5GHz dual freq bands, 2x2MIMO	
Security Support	Wi-Fi Security: WPA3, WPA2, WEP	
I/O Port	1*1GE LAN/WAN＋ 1*1GE LAN 1*USIM Slot（3FF） 1*RESET 1*DC JACK	
Antenna	Build-in Omni Separate 2.4G&5G WiFi antennas, 3dBi Peak Gain	
	Build-in 4 Omni Cellular Antennas, and 6dBi Peak Gain	
Basic Parameters	Device Type: 5G Sub-6 Indoor CPE Size：228mm x 173 mm x 71mm Working Temperature：0~45。C Water / Dust Proof：IP3X Power Supply: AC 100~240V, DC 12V 2A	

WA3200
5G Indoor CPE

Leading indoor wireless broadband access equipment

Key Features

- Cost effective & compact design with built-in high gain 4x4 wide band antenna
- Compliant to 3GPP Release 15 specifications
- Advanced 4x4 MIMO
- Two GE LAN ports, VoNR Line and Wi-Fi6 dual-band support
- Router and IP-passthrough networking capability, IPv4 & IPv6, and Multiple PDN support
- VPN & full L2/L3 GRE Tunneling clients support
- Wireless fallback support for networking redundancy
- FTP, HTTP, HTTPS and TR-069 management support

Basic Introduction

WA3200 is a most advanced 5G SA n78 only indoor Wi-Fi & VoNR CPE product specially designed to enable quick and easy 5G fixed data service deployment for residential and SOHO customers. It provides high speed LAN, Wi-Fi and VoNR integrated services to end users who need both bandwidth and multi-media data service in residential homes or enterprises.

RELIABLE PERFORMANCE

WA3200 is an advanced multiport indoor Wi-Fi and VoNR CPE based on the standard implementation of 3GPP Release 15 specifications. With built-in high gain antenna, it enables a longer reception range from the base station. This yields more efficient use of the network with a larger cell reach, guaranteed carrier class service, and customer service probability.

The device has two Gigabit LAN ports, one RJ11 analog phone port, high performance 4x4 MIMO capabilities, 802.11b/g/n/ax multiband Wi-Fi, advanced routing and firewall software for security. It provides an effective all-in-one solution to SOHO or residential customers. It can deliver up to 1Gbps max data throughput which can be very competitive to wired broadband access service.

EASY USAGE & MANAGEMENT

WA3200 is a user-friendly 5G SA n78 only CPE and very easy to configure and setup. Subscribers can just connect the device to their computer or home switch/router and the device is ready to offer an experience of surfing over Internet. The LEDs on the WA3200 have also been designed for user convenience, and offer a clear sign of what the device is doing. The compact design is well suited for enterprise and residential users.

WA3200 offers rich management features which facilitate the task of service provider. It supports local management access, Telnet, WEB, and centralized remote OTA configuration, upgrades management and device monitoring via standard TR-069 ACS system.

TECHNICAL FEATURES

WA3200 is fully compliant to the 3GPP release 15 specifications. It offers standard support for advanced features such as MIMO and AMC to maximize the system capacity and bandwidth throughput. The use of OFDM modulation enhances performance in non-line-of-sight conditions to ensure immunity to interference and multi-path conflicts typical of deployments in urban areas. Sophisticated QoS capabilities ensure true end-to-end QoS and support for high quality data services.

Technical Specifications

Physical	Dimensions	133mm x 75mm x 200mm
	Weight	< 700g
	Power consumptions	< 15W
	Power Supply	12V/2A DC Adapter
Environmental	Operating Temperature	-15℃ to 55℃
	Storage Temperature	-40℃ to 85℃
	Humidity	90% max non-condensing
Wireless Radio Interface	Radio Access	3GPP Release 15, 5G SA
	Chipset	UNISOC UDX710
	Operation Mode	5G 4x4 MIMO
	Frequency Band	5G SA n78
	Modulations	QPSK/QAM16/QAM64/QAM256
	Receive Sensitivity	Compliance with 3GPP 15 standard
	Output Power	23dBm：2dB
	Antenna Gain	2-6dBi
Wi-Fi Interface	Radio Access	IEEE802.11b/g/n/ax
	MIMO	2 x 2 DBDC (1.8Gbps, BW=160MHz)
	Output Power	15dBm
	Antenna	3-5dBi Built-in antenna
	Connected Users	32
	Security	64/128-bit WEP, WPA/WPA2/WPA3
User Interface	Data Interface	2 RJ45 GE ETH Port
	Line Interface	1 RJ11 Port
	LED Indicators	SYS, MOD, RF, Wi-Fi, LINE
	SIM Support	1.8V/3.0V USIM 3FF

Technical Specifications

VoNR Support (Optional)	Basic Call	AMR-NB & AMR-WB
		Caller ID Name & Number display
	Supplementary Call Features	Communication Forwarding
		Barring of Incoming/Outgoing Calls
		Communication Hold & Waiting
		Ad-Hoc 3-Party Conference
		Message Waiting Indication
		Communication Diversion/Forward
	DSP Processing	Adaptive Multi-Rate speech codec (AMR)
		AMR wideband codec
		Narrowband 8KHz & Wideband 16KHz Support
		DTMF Tone Generation and Detection
		Call Progress Tone Generation
SW Specifications	Networking Configuration	Router and L3 Bridge Operation Support
		Built-in DHCP Server for LAN Devices
		IPv4, and IPv6 DS-Lite Support
		Multiple PDN Interface Support
	Data Networking Features	VPN Pass-through support (PPTP, L2TP & IPsec)
		Built-in L2TP & GRE Tunneling Client Support
		DNS Proxy Support
		Firewall & Access Control
		DMZ and Virtual Server Support
		IP and Port Forwarding Support
		Local and Remote Management Restriction
		Application Firewall Support
		NTP Service Support
		LAN Device Access Control
	Device Management	CLI, Telnet, HTTP and HTTPS Management Interfaces
		Standard Based TR-069 Management
		FTP and HTTP OTA Firmware Upgrade
		USIM and PLMN Locking Support
		Device Factory Default Setting

WA510
5G Indoor CPE

Leading indoor wireless broadband access equipment

Key Features

• 3GPP Release 15

• 5G NR SA/NSA，LTE，WCDMA support

• 5G 2CC 200M CA

• Up to 4x4MIMO/2CA

• Up to 4.67Gbps of DL /2.5Gbps of UL speed

• Wi-Fi6 AX1800

• Build-in PPTP/IPSec/L2TPv2/L2TPv3/GRE VPN Client support

• DFOTA&VoLTE(Optional)

Specifications

Chipset model	MTK T750	
5G & 4G Standard	3GPP Release 15	
Peak throughput	NSA TDD: Max. 3.74 Gbps (DL)/ 1.46 Gbps (UL) SA TDD: Max. 4.67 Gbps (DL)/ 2.5 Gbps (UL)	
Frequencies (Customized）		EU	NA
	5G NR NSA	n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78	n2/n5/n7/n12/n25/n38/n41/n48/n66/n71/n77/n78
	5G NR SA	n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78	n2/n5/n7/n12/n25/n38/n41/n48/n66/n71/n77/n78
	5G DL CA	Supports 2CC CA	Supports 2CC CA
	5G DL 4 x 4 MIMO	n1/n3/n7/n38/n40/n41/n77/n78	n2/n7/n25/n38/n41/n48/n66/n77/n78
	5G UL 2 x 2 MIMO	n40/n41/n77/n78	n41/n48/n77/n78
	LTE-FDD	B1/B3/B5/B7/B8/B20/B28/B32	B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B29/B30/B66/B71
	LTE-TDD	B38/B40/B41/B42/B43	B38/B41/B42/B43/B48
	LTE-LAA	-	B46
	LTE DL 4 x 4 MIMO	B1/B3/B7/B38/B40/B41/B42/B43	B2/B4/B7/B25/B30/B38/B41/B42/B43/B48/B66
	WCDMA	B1/B5/B8	-
Output Power	5G NR: 23：1.5dBm * N41/77/78: 26：1.5dBm LTE: 23：1.5dBm	
MIMO	5G DL 4 × 4 MIMO on n1/n3/n7/n38/n40/n41/n77/n78,2CA 5G UL 2 × 2 MIMO on n41/n77/n78 LTE DL 4×4 MIMO on B1/B3/B7/B38/B40/B41/B42/B43	
Modulation	5G Sub-6 DL: 256QAM, UL: 256QAM LTE DL:256QAM, UL:256QAM	
5G/4G TX/RX	1T2R/1T4R/2T4R	
WiFi	802.11b/g/n/ac/ax, WiFi6 AX1800, 2.4G&5GHz dual freq bands, 2x2MIMO	
Security Support	Wi-Fi Security: WPA3, WPA2, WEP	
I/O Port	1*1GE LAN/WAN + 1*1GE LAN 1*RJ11（optional） 1*USIM Slot（3FF） 1*RESET 1*DC JACK	
Basic Parameters	Device Type: 5G Sub-6 Indoor CPE Size：229mm x 191mm x 72mm Working Temperature：0~45°C Water / Dust Proof：IP3X	

OWA500
5G Outdoor CPE

Leading outdoor wireless broadband access equipment

Key Features

- 3GPP Release 15

- Worldwide 5G and LTE-A coverage

- 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

- Supports DMZ

- Support NAT, Bridge and Router operation mode

- Standard TR-069 Management

Cellular Specifications

Category	3GPP Release 15					
Solution	Qualcomm SDX55					
Frequency Bands and CA and MIMO	Variant for Europe/Asia	5G NR	n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78/n79/			
		LTE-FDD	B1/B3/B5/B7/B8/B18/B19/B20/B26/B28/B32			
		LTE-TDD	B34/B38/39/B40/B41/B42/B43			
		WCDMA	B1/B3/B5/B6/B8/B19			
	Variant for North America	5G NR	n2/n5/n7/n12/n25/n41/n48/n66/n71/n77/n78			
		LTE-FDD	B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B29/B30/B66/B71			
		LTE-TDD	B41/B48			
		LAA	B46			
		WCDMA	B2/B4/B5			
Tx / Rx	2Tx/6Rx					
LTE Transmit Power	Class 3 (23dBm : 2dB)					
Peak throughput	5G SA Sub-6GHz: Max 2.1bps (DL)/Max 900Mbps (UL) 5G NSA Sub-6GHz: Max 2.5Gbps (DL)/Max 650Mbps (UL) LTE: Max 1.0Gbps (DL)/Max 200Mbps (UL) WCDMA: Max 42Mbps (DL)/Max 5.76Mbps (UL)					
		Antenna	Frequency Range	Gain	VSWR	Direction
Cellular Antenna	6 Built-in high gain directional antennas	ANT1~2 (LTE)	600MHz ~ 5000MHz	617~960: 4dBi 1452~2690: 6dBi 3400~3800: 6dBi 4400~5000: 6dBi	<3	directional
		ANT3~6 (LTE)	1700MHz ~ 5000MHz	1700~2690: 4dBi 4400~5000: 6dBi	<3	directional

Hardware Specifications

Chipset	Qualcomm SDX55
External port	1*RJ45 LAN Ports with PoE 10/100/1000M auto-sensing, auto-MDI/MDIX
LED Indicators	8 LED Indicators (RUN, SIM, ETH, SYS, RF Signal*4)
Button	Tact switch with Reset/Reboot button
SIM	1 2FF USIM/SIM slot(1.8V/3V)
Power supply	AC 100~240V DC 24V 1A
Power consumption	<15W
Dimensions	288mmx 288mmx 88mm
Weight	<2000g
Environment Specifications	Operating: -30℃~ 55℃ Storage: -40℃ ~ 85℃ Humidity: 5% ~ 95% non-condensing Water & Dust proof: IP67

Software Specifications

WAN	Multi-APN support, maximum four Multi-PDN, IP pass through IPv4/v6 dual stack
LAN	DHCP Server, Client DNS Relay and DNS proxy DMZ Multicast/Multicast Proxy MAC Address Filtering
Device Management	TR069 SNMP v1, v2, v3 Web UI Software upgrade via WEB / FTP server / TR069 / FOTA USIM PIN authentication
Routing Mode	Route Mode Bridge Mode NAT mode Static Route Port Mirror and port forwarding ARP IPv4，IPv6 and IPV4/IPv6 Dual Stack
VPN	IPsec PPTP L2TPv2 and L2TPv3 GRE Tunnel
Security	Firewall MAC Address Filtering IP Address Filtering URL Filtering Access Control HTTPS Login from WAN Dos attack protection Three level of user authority
Reliability	Watchdog for automatic recovery Auto rollback to previous version when upgrade fail

Appendix-Delivers

1*Assembled product

1*CAT6 Ethernet Cable, 1M

1*24V/1A Power Adapter

1*PoE Switch

1*Mounting Accessories(Pole mounting and wall mounting)

1*Quick User Guide

OWA-500G

5G Outdoor CPE

Leading outdoor wireless broadband access equipment

Key Features

- 3GPP Release 15

- 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

- Supports DMZ

- Support NAT, Bridge and Router operation mode

- Standard TR-069 Management

Cellular Specifications

Category	3GPP Release 15
Solution	Qualcomm SDX55
Frequency Bands and CA and MIMO	5G NR　　　n78
Tx / Rx	2Tx/4Rx
LTE Transmit Power	Class 2 (26dBm : 2dB)
Peak throughput	5G SA Sub-6GHz: Max 2.1bps (DL)/Max 900Mbps (UL)

Cellular Antenna	6 Built-in high gain directional antennas	Antenna	Frequency Range	Gain	VSWR	Direction
		ANT	3400MHz ~ 3800MHz	Max 16dBi	<3	directional

Hardware Specifications

Chipset	Qualcomm SDX55
External port	1*2.5G RJ45 LAN Ports with PoE
LED Indicators	8 LED Indicators (RUN, SIM, ETH, SYS, RF Signal*4)
Button	Tact switch with Reset/Reboot button
SIM	1 2FF USIM/SIM slot(1.8V/3V)
Power supply	AC 100~240V DC 24V 1A
Power consumption	<15W
Dimensions	288mm x 288mm x 88mm
Weight	<2000g
Environment Specifications	Operating: -30℃~ 55℃ Storage: -40℃ ~ 85℃ Humidity: 5% ~ 95% non-condensing Water & Dust proof: IP67

Software Specifications

WAN	Multi-APN support, maximum four Multi-PDN, IP pass through IPv4/v6 dual stack
LAN	DHCP Server, Client DNS Relay and DNS proxy DMZ Multicast/Multicast Proxy MAC Address Filtering
Device Management	TR069 / TR143 SNMP v1, v2, v3 Web UI Software upgrade via WEB / FTP server / TR069 / TR143 / FOTA USIM PIN authentication
Routing Mode	Route Mode Bridge Mode NAT mode Static Route Port Mirror and port forwarding ARP IPv4, IPv6 and IPV4/IPv6 Dual Stack
VPN	IPsec PPTP L2TPv2 and L2TPv3 GRE Tunnel
Security	Firewall MAC Address Filtering IP Address Filtering URL Filtering Access Control HTTPS Login from WAN Dos attack protection Three level of user authority
Reliability	Watchdog for automatic recovery Auto rollback to previous version when upgrade fail

Appendix-Delivers

1*Assembled product

1*CAT6 Ethernet Cable, 1M

1*24V/1A Power Adapter

1*PoE Switch

1*Mounting Accessories(Pole mounting and wall mounting)

1*Quick User Guide

OWA500N

5G Outdoor CPE

Leading outdoor wireless broadband access equipment

Key Features

- 3GPP Release 16

- Worldwide 5G and LTE-A coverage

- Support 5G NSA and SA modes

- Built-in high gain wide bandwidth antennas

- Support 2.5 Gigabit Ethernet port

- IPv4 & IPv6 and Multiple PDN support

- Built-in VPN and L2/L3 GRE client support

- WEB, TR069 and SNMP based device management

Cellular Specifications

Category	3GPP Release 16	
	LTE Category 19	
Solution	Qualcomm Snapdragon x62(Quectel RG520N-EU)	
Frequency Bands / MIMO /Modulation	5G NR	n1/n3/n5/n7/n8/n20/n28/n38/n40//n41/n75/n76/n77/n78
	LTE FDD	B1/B3/B5/B7/B8/B20/B28/B32
	LTE TDD	B38/B40/B41/B42/B43
	WCDMA	B1/B5/B8
	5G DL 4×4 MIMO	n1/n3/n5/n7/n8/n20/n28/n38/n40//n41/n75/n76/n77/n78
	LTE DL 4×4MIMO	B1/B3/B7/B38/B40/B41/B42/B43
	Modulation	DL 256 QAM, UL 256 QAM
Tx / Rx	1T2R/1T4R/2T4R	
Transmit Power	Class 3 (23dBm：2dB)	
Peak throughput	5G SA Sub-6 GHz 2.4Gbps (DL)/ 900Mbps (UL)	
	5G NSA Sub-6 GHz 3.4Gbps (DL)/ 550Mbps (UL)	
	LTE 1.6Gbps (DL)/ 200Mbps (UL)	
	WCDMA 42 Mbps (DL)/5.76 Mbps (UL)	

		Antenna	Frequency Range	Gain	VSWR	Direction
Cellular Antenna	Built-in high gain directional antennas	ANT	700MHz ~ 5000MHz	0.7~ 0.96GHz: 4dBi 1.7 ~ 2.69GHz: 7dBi 3.4 ~ 3.8GHz: 9dBi 4.2 ~ 5GHz: 7dBi	<3	directional

Hardware Specifications

Chipset	Qualcomm Snapdragon x62(Quectel RG520N-EU)
External port	1x RJ45 Port
LED Indicators	8 LED Indicators (RUN, SIM, ETH, SYS, RF Signal*4)
Button	Tact switch with Reset/Reboot button
SIM	1 2FF USIM/SIM slot(1.8V/3V)
Power supply	AC 100~240V DC 24V 1A
Power consumption	<24W
Dimensions	165mm x 280mm x 56mm
Weight	~750g
Environment Specifications	Operating: -30℃~ 55℃ Storage: -40℃ ~ 85℃ Humidity: 5% ~ 95% non-condensing Water & Dust proof: IP65

Appendix-Delivers

1*Assembled product

1*CAT6 Ethernet Cable, 1M

1*24V/1A Power Adapter

1*PoE Switch

1*Mounting Accessories(Pole mounting and wall mounting)

1*Quick User Guide

WAN	Multi-APN support, maximum four Multi-PDN IP pass through IPv4/v6 dual stack
LAN	DHCP Server, Client DNS Relay and DNS proxy DMZ Multicast/Multicast Proxy MAC Address Filtering
Device Management	TR069 SNMP v1, v2, v3 Web UI Software upgrade via WEB / FTP server / TR069 / FOTA USIM PIN authentication
Routing Mode	Route Mode Bridge Mode NAT mode Static Route Port Mirror and port forwarding ARP IPv4, IPv6 and IPV4/IPv6 Dual Stack
VPN	IPsec PPTP L2TPv2/v3 GRE
Security	Firewall MAC Address Filtering IP Address Filtering URL Filtering Access Control HTTPS Login from WAN Dos attack protection Three level of user authority
Reliability	Watchdog for automatic recovery Auto rollback to previous version when upgrade fail

OWA500N+WA2202

5G CPE Combo

Leading outdoor wireless broadband access equipment

Key Features

- 5G Sub-6

- 3GPP R16

- Qualcomm SDX62

- NR 2CC, 120MHz

- Wi-Fi AX1800/AX3000

- 1*2.5GE RJ45 LAN Ports with PoE

- IP65

- 280mm x 165mm x 56mm

Basic Parameters

Device Type	Combo(ODU+WiFi Router)
Size	280x165x56mm(OWA500N)/ 225x215x75mm(WA2202)
Working Temperature	-30~55°C(OWA500N) / 0~45°C(WA2202)
Antenna(5G/WiFi)	6/4
Water/Dust Proof	IP65 (OWA500N) /IP3X (WA2202)
I/O Port	1x2.5G WAN/PoE 1x2.5G LAN 1*USIMSlot (2FF) RESET 1*DC JACK

Spectrum & Performance

Chipset model	Qualcomm Snapdragon X62
5G & 4G Standard	3GPP Release 16
Peak throughput	5G SA Sub-6 GHz :2.4Gbps (DL)/ 900Mbps (UL) 5G NSA Sub-6 GHz :3.2Gbps (DL)/ 600Mbps (UL)
Frequencies (Customized）	5G NR: n1/n3/n5/n7/n8/n20/n28/n38/n40//n41/n75/n76/n77/n78 4G LTE: B1/B3/B5/B7/B8/B20/B28/B32/B38/B40/B41/B42/B43
Output Power	5G NR bands: Class 3 (23 dBm ±2 dB) 5G NR n41/n77/n78/n79 bands HPUE: Class 2 (26 dBm +2/-3 dB) LTE bands: Class 3 (23 dBm ±2 dB) LTE B38/B41/B42/B43 bands HPUE 1: Class 2 (26 dBm ±2 dB)
Modulation	Sub-6 DL: 256QAM, UL: 256QAM
5G/4G TX/RX	1T2R/1T4R/2T4R
5G/4G Antenna	4 Built-in high gain directional antennas up-to 7 dBi
Wi-Fi	Peak Speed: AX1800/3000, with 2.4/5.8G Wi-Fi steering Standards: Wi-Fi 6, 802.11ax, 802.11ac, 802.11a/b/g, 802.11n Wi-Fi Features: Advanced QoS, MU-MIMO, 1024 QAM, OFDMA, Uplink scheduling, TxBF, Qualcomm® Wi-Fi SON

OWA500NC
5G CPE Combo

Leading outdoor wireless broadband access equipment

Key Features

- 5G Sub-6 , 3GPP R16

- ODU+WiFi Router

- Qualcomm SDX62

- NR 2CC, 120MHz

- Wi-Fi AX1800

- ODU: 1*2.5GE RJ45 Ports with PoE

- Router: 1*GE WAN/LAN, 1*GE LAN

- ODU power is supplied by indoor Router, no POE Injector needed.

- Router provide NR/LTE signal strength by LED.

- One web UI address manage both ODU and Router.

- TR-069 manage both ODU and Router as one device.

Basic Parameters

Device Type	Combo(ODU+WiFi Router)
Size	280x165x56mm(ODU) / 225x215x75mm(Router)
Working Temperature	-30~55°C(ODU) / 0~45°C(Router)
Antenna(5G/WiFi)	6/4
Water/Dust Proof	IP65 (ODU) / IP3X (Router)
I/O Port	ODU: 1*2.5GE RJ45 Ports with PoE Router: 1*GE WAN/LAN, 1*GE LAN 1*USIMSlot (2FF) RESET 1*DC JACK

Spectrum & Performance

Chipset model	Qualcomm Snapdragon X62
5G & 4G Standard	3GPP Release 16
Peak throughput	5G SA Sub-6 GHz :2.4Gbps (DL)/ 900Mbps (UL) 5G NSA Sub-6 GHz :3.2Gbps (DL)/ 600Mbps (UL)
Frequencies (Customized）	Europe/Aisa 5G NR: n1/n3/n5/n7/n8/n20/n28/n38/n40//n41/n75/n76/n77/n78 4G LTE: B1/B3/B5/B7/B8/B20/B28/B32/B38/B40/B41/B42/B43 North America 5G NR: n2/5/7/12/13/14/25/26/29/30/38/41/48/66/70/71/77/78 4G LTE: B2/4/5/7/12/13/14/17/25/26/29/30/66/71/38/41/42/43/48 Latin America 5G NR: n2/5/7/8/28/38/40/66/71/78 4G LTE: B2/4/5/7/8/26/28/66/38/40/42/43
Output Power	5G NR bands: Class 3 (23 dBm ±2 dB) 5G NR n41/n77/n78/n79 bands HPUE: Class 2 (26 dBm +2/-3 dB) LTE bands: Class 3 (23 dBm ±2 dB) LTE B38/B41/B42/B43 bands HPUE 1: Class 2 (26 dBm ±2 dB)
Modulation	Sub-6 DL: 256QAM, UL: 256QAM
5G/4G TX/RX	1T2R/1T4R/2T4R
5G/4G Antenna	4 Built-in high gain directional antennas up-to 7 dBi
Wi-Fi	Peak Speed: AX1800, with 2.4/5.8G Wi-Fi steering Standards: Wi-Fi 6, 802.11ax, 802.11ac, 802.11a/b/g/n Wi-Fi Features: Advanced QoS, MU-MIMO, 1024 QAM, OFDMA, Uplink scheduling, TxBF, Qualcomm® Wi-Fi SON

OWA500U
5G Outdoor CPE

Leading outdoor wireless broadband access equipment

Key Features

- 5G NR and LTE-A Dual mode

- 3GPP Release 15

- Both SA and NSA are supported

- Built-in high gain wide bandwidth antennas

- 1 x Gigabit LAN Port

- Advanced MIMO, AMC, OFDM support

- Built-in VPN and L2/L3 GRE client support

- IPv4 & IPv6 and Multiple PDN support

- Support NAT and Bridge operation mode

- Standard WEB, CLI and TR-069 Management

Specifications

Chipset model	Unisoc V510
5G & 4G Standard	3GPP Release 15
LTE Category	DL CAT12，UL CAT13
Peak throughput	SA: Max. 2 Gbps (DL)/ 1 Gbps (UL) NSA: Max. 2.6 Gbps (DL)/ 650Mbps (UL) LTE: Max. 600Mbps (DL)/ 150Mbps (UL) UMTS: Max. 42.2Mbps (DL)/ 11Mbps (UL)

Frequencies (Customized）		EA	CNV
	5G NR NSA	n1/n3/n7/n28/n38/n40/n41/n77/n78	n41/n78/n79
	5G NR SA	n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n66/n77/n78	n1/n3/n5/n8/n28A/n41/n66/n77/n78/n79
	5G DL 4 x 4 MIMO	n1/n3/n7//n28/n38/n40/n41/n66/n77/n78	n1/n28A/n41/n77/n78/n79
	5G UL 2 x 2 MIMO	n38/n40/n41/n77/n78	n41/n77/n78/n79
	LTE-FDD	B1/2/3/4/5/7/8/20/28/66	B1/3/5/8
	LTE-TDD	B38/B40/B41	B34/B38/B41
	WCDMA	B1/B2/B5/B8	B1/B5/B8

Output Power	5G NR: 23：1.5dBm * N41/77/78: 26：1.5dBm LTE: 23：1.5dBm
Modulation	5G Sub-6 DL: 256QAM, UL: 256QAM LTE DL:256QAM, UL:256QAM
5G/4G TX/RX	1T2R/ 1T4R/ 2T4R
I/O Port	1*1GE PoE/Ethernet Port 1*USIM Slot（2FF） 1*RESET
Antenna Gain	Build-in 4 Directional Cellular Antennas, and 8dBi Peak Gain
Basic Parameters	Device Type: 5G Sub-6 Outdoor CPE Size：165mm x 280 mm x 56mm Working Temperature：-30~55。C Water / Dust Proof：IP65 Power Supply: AC 100~240V, DC 24V Passive PoE

OWA510M
5G Outdoor CPE

Leading outdoor wireless broadband access equipment

Key Features

- 5G NR and LTE-A Dual mode

- 3GPP Release 15

- Both SA and NSA are supported

- Built-in high gain wide bandwidth antennas

- 1 x Gigabit LAN Port

- 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 WEB, CLI and TR-069 Management

Cellular Specifications

Category
3GPP Release 15
LTE Category 19

Frequency Bands / MIMO /Modulation/CA

5G NR: n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78

LTE FDD: B1/B3/B5/B7/B8/B20/B28/B32

LTE TDD: B38/B40/B41/B42/B43

WCDMA: B1/B5/B8

5G DL 4 × 4 MIMO: n1/n3/n7/n38/n40/n41/n77/n78

5G UL 2 × 2MIMO: n40/n41/n77/n78

LTE DL 4 × 4MIMO: B1/B3/B7/B38/B40/B41/B42/B43

200MHz 2 DLCA, 256 QAM

200MHz 2 ULCA, 256 QAM

Tx / Rx

1T2R/1T4R/2T4R

Transmit Power

Class 3 (23dBm±2dB)

Class 2 (26dBm+2/-3dB) for 5G NR n40/n41/n77/n78 UL MIMO HPUE

Peak throughput

5G SA: 4.67 Gbps (DL)/ 2.5 Gbps (UL)

5G NSA: 3.74 Gbps (DL)/ 1.46 Gbps (UL)

LTE 1.6 Gbps (DL)/ 211 Mbps (UL)

DC-HSPA+ 42Mbps (DL)/5.76Mbps (UL)

Cellular Antenna

Built-in high gain directional antennas

Frequency Range	Antenna Gain	VSWR	Direction
700MHz ~ 5000MHz	0.7~ 0.96GHz: 3dBi 1.7 ~ 2.69GHz: 7dBi 3400~5000: 8dBi	<3	directional

Hardware Specifications

Chipset
MTK T750, Quad-core ARM Cortex-A55 CPU @ 2GHz

Interface
1x GE RJ45 Port

LED Indicator
8 LED Indicators (RUN, SIM, ETH, SYS, RF Signal*4)

SIM
1 2FF USIM/SIM slot(1.8V/3V)

Button
Tact switch with Reset/Reboot button

Dimensions
165mm x 280mm x 56mm

Weight
~750g

Power Consumption
<15W

Power Supply
AC 100~240V DC 24V 1A

Environment Specifications
Operating: -30℃~ 55℃   Storage: -40℃ ~ 85℃
Humidity: 5% ~ 95% non-condensing
Water & Dust proof: IP65

Appendix-Delivers

1*Assembled product
1*CAT6 Ethernet Cable, 1M

1*24V/1A Power Adapter
1*PoE Switch

1*Mounting Accessories(Pole mounting and wall mounting)
1*Quick User Guide

Software Specifications

WAN	
Multi-APN support, maximum four Multi-PDN	IP pass through
	IPv4/v6 dual stack

LAN	
DHCP Server, Client	Multicast/Multicast Proxy
DNS Relay and DNS proxy	MAC Address Filtering
DMZ	

Device Management	
TR069	Software upgrade via WEB / FTP server / TR069 / FOTA
SNMP v1, v2, v3	
Web UI	USIM PIN authentication

Routing Mode	
Route Mode	Port Mirror and port forwarding ARP
Bridge Mode	IPv4, IPv6 and IPV4/IPv6 Dual Stack
NAT mode Static Route	

VPN	
IPsec	L2TPv2/v3
PPTP	GRE

Security	
Firewall	Access Control
MAC Address Filtering	HTTPS Login from WAN
IP Address Filtering	Dos attack protection
URL Filtering	Three level of user authority

Reliability	
Watchdog for automatic recovery	
Auto rollback to previous version when upgrade fail	

OWA600
5G mmWave Outdoor CPE

Leading outdoor wireless broadband access equipment

Key Features

. 3GPP R16

. mmWave, sub-6 and LTE

. 1*2.5GE PoE port

. Built-in high gain directional antenna

. Multi-color LED: power and 5G signal

. Support IPv4 and IPv6

. Support bridge and routing modes

. Support TR069 remote management

. Support Pole and Wall

. IP67

Basic Features	
Enclosure Size	162.5mm(L) x 249mm(H) x 81.5mm(W)
Mounting Method	Pole and Wall Vertical tilt: ±20 degrees Horizontal tilt: ±45 degrees
Protection Class	IP67
Enclosure Temp	Maximum equipment surface temperature: +75°C
Ambient Temp	-20 °C to +55 °C
Ports And Buttons	
Ports	1*Type-C(debug) 1*2.5GE PoE port
Bluetooth	BT5.0
LED	Multiple-color indicator: Power, 5G signal
Power	PoE(802.3at)Injector, Max 13Watt
SIM	Nano-SIM Card interface / e-SIM / UICC / ISIM with TEE
Button	Reset Button
Technical Features	

Technical Features		
Chipset	Qualcomm SDX65	
Frequency Band	5G NR NSA	n1/3/5/7/8/20/28/38/40/41/75/76/77/78/257/258/260/261
	5G NR SA	n1/3/5/7/8/20/28/38/40/41/75/76/77/78/257/258
	LTE	FDD: B1/ 3/ 5/ 7/ 8/ 20/ 28/ 32 TDD: B38/ 40/ 41/ 42/ 43
3GPP Standard	3GPP Release 16 NSA/SA operation,Sub-6 GHz, mmWave	
Network Function	IPv4/IPv6/IPv4&v6, SLAAC, cLAT Bridge & Router mode DHCP Server/Client in V4 and V6 uPnP & Port Forwarding Periodic and event-based RA (Router Advertisement) Respond to Neighbour-Solicitation with Neighbour-Advertisement Firewall Support	

Management & Application	
Management	Firmware Upgrade Network Management Interface SNTP Time Sync Telnet TR069 Syslog
Application	NAT / NAPT Router Function DHCP Server / Client IP Conflict Detection Port Mapping, DMZ SNTP Firewall

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OWA600C

Ruggedized 5G mmWave CPE Combo

Leading outdoor wireless broadband access equipment

Key Features

. 3GPP R16, mmWave & sub-6

. WiFi-6 AX3000

. ODU+WiFi Router

. Qualcomm SDX65+IPQ5018

. ODU: 1*2.5GE PoE port, Built-in high gain directional antenna, Support Pole and Wall, IP67

. Router: • 4*1GE Port, 1*FXS Port(SIP call), 1*USB, WiFi External Antenna connecter

. ODU power is supplied by WiFi Router, no POE Injector needed

ODU Technical Specifications

Basic Features	
Enclosure Size	162.5mm(L) x 249mm(H) x 81.5mm(W)
Mounting Method	Pole and Wall Vertical tilt: ±20 degrees Horizontal tilt: ±45 degrees
Protection Class	IP67
Enclosure Temp	Maximum equipment surface temperature: +75°C
Ambient Temp	-20 °C to +55 °C

Ports And Buttons	
Ports	1*Type-C(debug) 1*2.5GE PoE port
Bluetooth	BT5.0
LED	Multiple-color indicator: Power, 5G signal
Power	PoE(802.3at)Injector, Max 13Watt
SIM	Nano-SIM Card interface / e-SIM / UICC / ISIM with TEE
Button	Reset Button

Technical Features		
Chipset	Qualcomm SDX65	
Frequency Band	5G NR NSA	n1/3/5/7/8/20/28/38/40/41/75/76/77/78/257/258/260/261
	5G NR SA	n1/3/5/7/8/20/28/38/40/41/75/76/77/78/257/258
	LTE	FDD: B1/ 3/ 5/ 7/ 8/ 20/ 28/ 32 TDD: B38/ 40/ 41/ 42/ 43
3GPP Standard	3GPP Release 16 NSA/SA operation,Sub-6 GHz, mmWave	
Network Function	IPv4/IPv6/IPv4&v6, SLAAC, cLAT Bridge & Router mode DHCP Server/Client in V4 and V6 uPnP & Port Forwarding Periodic and event-based RA (Router Advertisement) Respond to Neighbour-Solicitation with Neighbour-Advertisement	

Management & Application	
	Firmware Upgrade
Management	Network Management Interface SNTP Time Sync Telnet TR069 Syslog
Application	NAT / NAPT Router Function DHCP Server / Client IP Conflict Detection Port Mapping, DMZ SNTP Firewall

WiFi Router Technical Specifications
FiberHome

Chipset	Qualcomm solution: IPQ5018 as CPU
Wi-Fi6	802. 11 a/n/ac/ax, 2 * 2 MIMO, 1024-QAM@ 160MHz 2402Mbps
	802.11 b/g/n/ax, 2 * 2 MIMO, 1024-QAM@40MHz 573Mbps
	EasyMesh R2
	Support multiple SSID Static WEP (64/ 128bit) , Dynamic WEP (64/ 128bit) , AES (CCMP/TKIP) , WPA/WPA2, WEP certification, WPA-PSK/WPA2-PSK
	Access device list WMM
	MAC address filter(Different from wired MAC address filtering) WDS
	AP Isolation
Wi-Fi Band	2.4GHz & 5GHz
I/O Interface	4 x 1 Gigabit Ethernet Port 1 x USB Interface
	DC jack
	Reset Button, WPS Button
	Wi-Fi External Antenna connecter
	1 FXS Port(SIP call)
Management Features	Firmware Upgradeable
	Web Management Interface
	Auto Provisioning: TFTP, HTTP And HTTPS
	SNTP Time Synchronization (RFC 2030)
	Multi User Level
	TR069-Client; FOTA/DFOTA from ACS; Manual SW upgrade
Physical & Environment Specification	Power: 12V
	Dimension : 160mm(L)x118mm(W)x54.6mm(H)
	Metal Enclosure

WA4612VC
CAT6 LTE Indoor CPE

Leading indoor wireless broadband access equipment

Key Features

- 3GPP Release 10

- UE Category 6

- LTE & WCDMA

- 802.11 b/g/n/ac, 2x2 MIMO

- WiFi AC1200

- 4xRJ45 GE ports, 1xRJ11(optional)

- LTE Chipset: ASR1828

- WiFi Chipset: Realtek RTL8192FR

- Product color: white or black

- Battery 3.7V/5000mAh(optional)

Specification

Dimensions	155.7*130.5*54.7mm		
Weight	432g		
Form	LTE Desk Router		
Chipset	Chipset	ASR1828	
	Frequency Bands	LTE	B1/B3/B7/B8/B20/B38/B40
		CA	2CA combos
		UMTS	B1/B8
	Antenna	External	2* External Antannas(undetachable)
	RF Power Level	LTE FDD	Power Class 3 (23 +/-2dBm)
		UMTS	Power Class 3 (24 +1.7/-3.7dBm)
	Data Rate	4G	3GPP Cat. 6, Downlink/Uplink up to 300Mbps/50Mbps
		3G	3GPP Downlink/Uplink up to 42Mbps/5.76Mbps
WLAN	Chipset	Realtek RTL8192FR	
	Wi-Fi	Frequency	2.4GHz & 5G (DBSC)
		Protocol	IEEE 802.11b/g/n/ac
		Antenna	Internal, 2 x 2
	Data Rate	802.11b	Up to 11 Mbps
		802.11g	Up to 54 Mbps
		802.11n	Up to 300 Mbps
		802.11ac	Up to 867Mbps
Power Supply	AC/DC, 12V1.5A		
Interface	LAN/WAN	Giga Ports*4:4xLAN or 1xWAN+3xLAN	
	USIM	Single, 3FF SIM	
	Power Jack	12V/1.5A interface	
LED	Power	Power Status Indicator(Single: Blue *1)	
	2.4GHz	2.4G Wi-Fi Status Indicator(Single: Blue * 1)	
	5GHz	5G Wi-Fi Status Indicator(Single: Blue *1)	
	LAN	LAN Indicator(Single: Yellow *1)	
	INTERNET	Network Status Indicator(Single: Blue *1)	
	Signal Strength	4 bars to show the signal strength(Single: Blue *4)	
	WPS	WPS indicator(Single:blue*1)	
	Phone	VoLTE&CS phone indicator(Single:blue*1)	
	Battery	Battery indicator(Dual-color*1 blue&red)	

Specification

FiberHome

Button	Power Key	Switch ON/OFF Device
	WPS Key	Enable WPS
	Reset Key	Restore Factory Settings

Memory	NAND 1 Gbit+ LPDDR2 1 Gbit		

Features	WebUI	System	Connection Status
			Statistics
			Device Management
			Power Mangement
		Mobile Service	SMS Manager
			Automatic APN matching according to USIM
			Auto Data Connection
			USSD Service
			PIN/PUK Management
			Network Mode Selection(3G/LTE/Auto)
		Router	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK encryptions
			IPv4/v6
			Multi SSID（Dual SSID）
			TR069
			VPN Passthrough
			Dynamic IP/Static IP/PPTP(Dual Access)/L2TP(Dual Access)
			Virtual Server, UPnP, DMZ, DDNS
			DoS, SPI Firewall, IP Address Filter/Domain Filter
			IP and MAC Address Binding
			Traffic Control (IP QoS)
			Access Control, Local Management, Remote Management

Operation System	Windows	Win7/8/10
	MAC OS	10.10+
	Linux	Ubuntu 15.04+
	Browser	IE9+, Firefox, Google Chrome, Safari, Opera

Temperature	Working Temperature	0｡C to 45｡C
	Storage Temperature	-20｡C to 60｡C

WA528

CAT4 LTE CPE

Leading indoor wireless broadband access equipment

Key Features

- 3GPP Release 9

- UE Category 4

- LTE & WCDMA

- 802.11 b/g/n, 2x2 MIMO

- WiFi4 N300

- Micro-USB 2.0 port

- 1xRJ45 GE port

- LTE Chipset: Qualcomm MDM9207

- WiFi Chipset: Realtek RTL8192ES

Specification

FiberHome

Dimensions	100.00 x 80.00 x 43.00mm		
Weight	160g		
Form	LTE Desk Router		
Chipset	Chipset	Qualcomm MDM9207	
	Frequency Bands	LTE	B1/B3/B7/B8/B20/B38(can be customized)
		UMTS	B1/B8
	Antenna	Internal	2* Internal Antanna
	RF Power Level	LTE FDD	Power Class 3 (23 +/-2dBm)
		UMTS	Power Class 3 (24 +1.7/-3.7dBm)
	Data Rate	4G	3GPP Cat. 4, Downlink/Uplink up to 150Mbps/50Mbps
		3G	3GPP Downlink/Uplink up to 42Mbps/5.76Mbps
WLAN	Chipset	Realtek RTL8192ES	
	Wi-Fi	Frequency	2.4GHz
		Protocol	IEEE 802.11b/g/n
		Antenna	Internal, 2 x 2
	Data Rate	802.11b	Up to 11 Mbps
		802.11g	Up to 54 Mbps
		802.11n	Up to 300 Mbps
Power Supply	5V/2A		
Interface	LAN/WAN	RJ45 GE port*1,WAN or LAN	
	USIM	Single, 3FF SIM	
	Micro-USB	5V/2A interface	
LED	Power	Power Status Indicator(Single: Blue *1)	
	WIFI	2.4G Wi-Fi Status Indicator(Single: Blue *1)	
	INTERNET	4G/3G Network Status Indicator(Tri-colour*1)	
	LAN	Lan status indicator(Single: Blue *1)	
	Signal	LTE signal strength(Single: Blue *1)	
Button	WPS Key	Enable WPS	
	Reset Key	Restore Factory Settings	
Memory	2Gb+2Gb		

Specification

FiberHome

		Connection Status
		Statistics
	System	Device Management
		Power Mangement
		SMS Manager
		Automatic APN matching according to USIM
		Auto Data Connection
	Mobile Service	USSD Service
		PIN/PUK Management
		Network Mode Selection(3G/LTE/Auto)
Features	WebUI	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK encryptions
		IPv4/v6
		TR069
		VPN Passthrough
		PPTP/L2TP
	Router	MAC Filter / IP Filter
		Network Time Protocol
		IP and MAC Address Binding
		Traffic Control (IP QoS)
		Access Control, Local Management, Remote Management
Operation System	Windows	Win7/8/10
	MAC OS	10.10+
	Linux	Ubuntu 15.04+
	Browser	IE9+, Firefox, Google Chrome, Safari, Opera
Temperature	Working Temperature	0。C to 40。C
	Storage Temperature	-20。C to 60。C

WA818

CAT6 LTE Indoor CPE

Leading indoor wireless broadband access equipment

Key Features

- 3GPP Release 12

- UE Category 6

- LTE & WCDMA

- 802.11 b/g/n/ac, 2x2 MIMO

- WiFi AC1200

- 4xRJ45 GE Ports, 1xRJ11(optional)

- LTE Chipset: Qualcomm SDX12

- WiFi Chipset: Realtek RTL8197FS

Specification

FiberHome

Dimensions	154*122*32mm		
Weight	275g		
Form	LTE Desk Router		
Chipset	Chipset	Qualcomm SDX12	
	Frequency Bands	LTE	B1/B3/B7/B8/B20/B38/B40(can be customized)
		CA	2CA combos
		UMTS	B1/B8
	Antenna	External	2* External Antannas(optional,SMA connector)
		Internal	2* Internal Antannas
	RF Power Level	LTE FDD	Power Class 3 (23 +/-2dBm)
		UMTS	Power Class 3 (24 +1.7/-3.7dBm)
	Data Rate	4G	3GPP Cat. 6, Downlink/Uplink up to 300Mbps/50Mbps
		3G	3GPP Downlink/Uplink up to 42Mbps/5.76Mbps
WLAN	Chipset	Realtek RTL8197FS	
	Wi-Fi	Frequency	2.4GHz & 5G
		Protocol	IEEE 802.11b/g/n/ac
		Antenna	Internal, 2 x 2
	Data Rate	802.11b	Up to 11 Mbps
		802.11g	Up to 54 Mbps
		802.11n	Up to 300 Mbps
		802.11ac	Up to 867Mbps
Power Supply	AC/DC, 12V1A		
Interface	LAN/WAN	Giga Ports*4:4xLANs or 1xWAN+3xLAN	
	USIM	Single, 2FF SIM	
	Power Jack	12V/1A interface	
LED	Power	Power Status Indicator(Single: Green *1)	
	2.4GHz	2.4G Wi-Fi Status Indicator(Single: Green *1)	
	5GHz	5G Wi-Fi Status Indicator(Single: Green *1)	
	LAN	LAN Indicator(Single: Green *1)	
	INTERNET	4G/3G Network Status Indicator(tri-colour *1)	
	Signal Strength	4 bars to show the signal strength(Single: Green *4)	

Specification

Button	Power Key	Switch ON/OFF Device
	WPS Key	Enable WPS
	Reset Key	Restore Factory Settings
Memory	SPI ROM 128Mb(External) + 1Gb DDR2(Internal)	

Features	WebUI	System	Connection Status
			Statistics
			Device Management
			Power Mangement
		Mobile Service	SMS Manager
			Automatic APN matching according to USIM
			Auto Data Connection
			USSD Service
			PIN/PUK Management
			Network Mode Selection(3G/LTE/Auto)
		Router	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK encryptions
			IPv4/v6
			Multi SSID（Dual SSID）
			TR069
			VPN Passthrough
			Dynamic IP/Static IP/PPTP(Dual Access)/L2TP(Dual Access)
			Virtual Server, UPnP, DMZ, DDNS
			DoS, SPI Firewall, IP Address Filter/Domain Filter
			IP and MAC Address Binding
			Traffic Control (IP QoS)
			Access Control, Local Management, Remote Management

Operation System	Windows	Win7/8/10
	MAC OS	10.10+
	Linux	Ubuntu 15.04+
	Browser	IE9+, Firefox, Google Chrome, Safari, Opera

Temperature	Working Temperature	0。C to 45。C
	Storage Temperature	-20。C to 60。C

WA825
CAT6 LTE Indoor CPE

Leading indoor wireless broadband access equipment

Key Features

- 3GPP Release 12

- UE Category 6

- LTE & WCDMA

- 802.11 b/g/n/ac, 2x2 MIMO

- WiFi AC1200

- 2xRJ45, 1xRJ11(optional)

- LTE Chipset: Qualcomm SDX12

- WiFi Chipset: Qualcomm QCA6174A

- Product color: white or black

Specification

FiberHome

Dimensions	135*120*46mm		
Weight	205g(include external antenna)		
Form	LTE Desk Router		
Chipset	Chipset	Qualcomm SDX12	
	Frequency Bands	LTE	B1/B3/B7/B8/B20/B38/B42/B43
		CA	2CA combos
		UMTS	B1/5
	Antenna	External	Primary and Diversity (*2)
		Internal	2* Internal Antanna
	RF Power Level	LTE FDD	Power Class 3 (23 +/-2dBm)
		UMTS	Power Class 3 (24 +1.7/-3.7dBm)
	Data Rate	4G	3GPP Cat. 6, Downlink/Uplink up to 300Mbps/50Mbps
		3G	3GPP Downlink/Uplink up to 42Mbps/5.76Mbps
WLAN	Chipset	Qualcomm QCA6174A	
	Wi-Fi	Frequency	2.4GHz & 5G (DBSC)
		Protocol	IEEE 802.11b/g/n/ac
		Antenna	Internal, 2 x 2
	Data Rate	802.11b	Up to 11 Mbps
		802.11g	Up to 54 Mbps
		802.11n	Up to 300 Mbps
		802.11ac	Up to 867Mbps
Power Supply	AC/DC, 12V1A		
Interface	LAN/WAN	Giga Ports*2: 2xRJ45 for 2xLANs or 1xWAN+1xLAN	
	USIM	Single, 2FF SIM	
	Power Jack	12V/1A interface	
LED	Power	Power Status Indicator(Single: Blue *1)	
	2.4GHz	2.4G Wi-Fi Status Indicator(Single: Blue *1)	
	5GHz	5G Wi-Fi Status Indicator(Single: Blue *1)	
	LAN	LAN Indicator(Single: Blue *1)	
	INTERNET	4G/3G Network Status Indicator(tri-colour *1)	
	Signal Strength	4 bars to show the signal strength(Single: Blue *4)	

Specification

Button	Power Key	Switch ON/OFF Device
	WPS Key	Enable WPS
	Reset Key	Restore Factory Settings
Memory	ROM 4Gbits + RAM 2Gbits	

Features	WebUI	System	Connection Status
			Statistics
			Device Management
			Power Mangement
			Andoid/iOS App Management
		Mobile Service	SMS Manager
			Automatic APN matching according to USIM
			Auto Data Connection
			USSD Service
			PIN/PUK Management
			Network Mode Selection(3G/LTE/Auto)
		Router	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK encryptions
			IPv4/v6
			Multi SSID（Dual SSID）
			TR069
			VPN Passthrough
			Dynamic IP/Static IP/PPPoE/PPTP(Dual Access)/L2TP(Dual Access)
			Virtual Server, UPnP, DMZ, DDNS
			DoS, SPI Firewall, IP Address Filter/Domain Filter
			IP and MAC Address Binding
			Traffic Control (IP QoS)
			Access Control, Local Management, Remote Management

Operation System	Windows	Win7/8/10
	MAC OS	10.10+
	Linux	Ubuntu 15.04+
	Browser	IE9+, Firefox, Google Chrome, Safari, Opera

Temperature	Working Temperature	0。C to 45。C
	Storage Temperature	-20。C to 60。C

WA421
CAT12 LTE Indoor CPE

Leading indoor wireless broadband access equipment

Key Features

- 3GPP Release 12

- UE Category 12

- LTE & WCDMA

- Wi-Fi 6 AX3000

- 802.11 b/g/n/ac/ax

- 4xRJ45, 1xRJ11(optional)

- LTE Chipset: Qualcomm SDX12

- WiFi Chipset: MT7981B+MT7976+MT7531AE

RF Specifications

Support Bands	4G:
	  FDD B1/3/5/7/8/20/28/32
	  TDD B38/40/41/*42/*43
	3G:
	  1/3/5/8
	Can be customized.

Peak Throughput	LTE CAT 12, 600 Mbps (DL)/150 Mbps (UL)
CA	DL Inter/Intra 3CA , UL 2CA
MIMO	DL 4x4 MIMO
Output Power@25℃	23±2 dBm

LTE Antenna Gain		
700M~1G	1.5G~2.7G	3.4G~3.8G
2.7dBi	4.1dBi	4.6dBi

Wi-Fi Frequency	Wi-Fi Antenna	Wi-Fi Output Power	Wi-Fi Channel BW	Wi-Fi Antenna Gain
2.4G/5GHz Dual Band	2 Built-in	19dBm@2.4G 16dBm@5GHz	20/40/80/160 MHz	3.5dBi

Hardware Specifications

Chipset	Qualcomm SDX12 MTK MT7981B
LTE standard	3GPP Release 12 CAT12
Flash	4 Gb
RAM	4 Gb
Ethernet LAN Port	4 * LAN: 10/100/1000 auto-sensing, auto-MDI/MDIX
Voice POTS Port	1 * Voice
LED	8 LED Indicators (PWR, Wi-Fi, TEL, NET, RF Signal*4)
SIM	1 * USIM/SIM (3FF)
Button	Reset/Reboot, WPS
LTE Antenna	4 Built-in
WIFI Antenna	3 Built-in
Dimensions	204.5mm x 169 mm x 60mm (not include antennas)
Weight	< 300g
Power Consumption	< 18W
Power Supply	AC input 100~240V DC output 12V 2A

Operation Mode	NAT mode Bridge
Device Management	TR069 WebUI Software Upgrade – Local/FOTA
Device statistic	WAN statistic LAN statistic
Network Protocols and Features	NAT SNTP/NITZ VLAN(optional) PPPoE(optional) Ethernet mode Virtual server and DMZ DNS relay and DDNS DHCP server/client IPV4/IPv6 Dual Stack UPnP Parents control
VPN	L2TP over IPsec L2TP V2/V3 GRE L2/L3 PPTP
Security and Firewall	MAC Address Filtering IP Address Filtering URL Filtering DDOS
VoLTE functions(optional)	Call Waiting Call Hold /Resume Call Forward Call Transfer 3-Way conferencing Caller ID display/blocking
Wi-Fi functions	Maximum users: 32 Encryption: WPA-PSK (TKIP), WPA-PSK (AES), WPA2-PSK (TKIP), WPA2-PSK (AES) Hide SSID broadcasting AP Isolation Guest network
System	Syslog Network diagnose Reset factory default Configuration backup/restore Web account configuration Scheduling Auto-Reboot

Appendix-Deliveries

Assembled product	1 PCS
Ethernet cable	1 PCS
Adapter	1 PCS
Quick Start Guide	1 PCS

WA821V
CAT6 LTE Indoor CPE

Leading indoor wireless broadband access equipment

Key Features

- 3GPP Release 12

- UE Category 6

- LTE & WCDMA

- Wi-Fi 6 AX3000

- 802.11 b/g/n/ac/ax

- 2 x RJ45

- 1 x RJ11(Volte)

- LTE Chipset: Qualcomm SDX12

- Wi-Fi Chipset: Qualcomm IPQ5018+QCN6102

RF Specifications

Support Bands	EMEA/APAC: LTE FDD: B1/3/5/7/8/20/28/32 LTE TDD: B38/40/41(120M)WCDMA: B1/3/5/8 North America: LTE FDD: B2/4/5/7/12/13/14/17/25/26/29/30/66/71 LTE TDD: B41(194M)/46/48 WCDMA: B2/4/5 Latin America: FDD: B1/2/3/4/5/7/8/20/28/66 TDD: B38/40/41/42/43 WCDMA: B1/2/4/5/8
Peak Throughput	LTE CAT 6, 300 Mbps (DL)/50 Mbps (UL)
CA	DL Inter/Intra 2CA
MIMO	DL 2x2 MIMO
Output Power@25℃	23±2 dBm

LTE Antenna Gain		
700M~1G	1.5G~2.7G	3.4G~3.8G
1dBi	4dBi	5dBi

Wi-Fi Frequency	Wi-Fi Antenna	Wi-Fi Output Power	Wi-Fi Channel BW	Wi-Fi Antenna Gain
2.4G/5GHz Dual Band	2x2 MIMO	19dBm@2.4G 16dBm@5GHz	20/40/80/160 MHz	3dBi

Hardware Specifications

Chipset	Qualcomm SDX12 + IPQ5018 + QCN6102
LTE standard	3GPP Release 12 CAT6
Flash	128MB Nand Flash
RAM	512MB LPDDR3x
Ethernet LAN Port	2 * LAN: 10/100/1000 auto-sensing, auto-MDI/MDIX
Voice Port	1 * RJ11(Volte)
LED	8 LED Indicators (PWR, Wi-Fi*2, NET, RF Signal*4)
SIM	1 * USIM/SIM (3FF)
Button	Reset/Reboot
LTE Antenna	2 Built-in Omni Antennas
WIFI Antenna	2.4Gx2 + 5Gx2 Separate Omni Built-in Antennas
Dimensions	228mm x 173 mm x 71mm
Weight	< 550g
Power Consumption	< 18W
Power Supply	AC input 100~240V DC output 12V 1.5A

Software Specifications

Operation Mode	NAT mode Bridge
Device Management	TR069 WebUI Software Upgrade – Local/FOTA
Device statistic	WAN statistic LAN statistic
Network Protocols and Features	NAT SNTP/NITZ VLAN(optional) PPPoE(optional) Ethernet mode Virtual server and DMZ DNS relay and DDNS DHCP server/client IPV4/IPv6 Dual Stack UPnP Parents control
VPN	L2TP over IPsec L2TP V2/V3 GRE L2/L3 PPTP
Security and Firewall	MAC Address Filtering IP Address Filtering URL Filtering DDOS
Wi-Fi functions	Maximum users: 32 Encryption: WPA-PSK (TKIP), WPA-PSK (AES), WPA2-PSK (TKIP), WPA2-PSK (AES) Hide SSID broadcasting AP Isolation Guest network
System	Syslog Network diagnose Reset factory default Configuration backup/restore Web account configuration Scheduling Auto-Reboot

Appendix-Deliveries

Assembled product	1 PCS
Ethernet cable	1 PCS
Adapter	1 PCS
Quick Start Guide	1 PCS

WA3300E
CAT6 LTE Indoor CPE

Leading indoor wireless broadband access equipment

Key Features

- Cost effective & compact design with built-in high gain LTE and Wi-Fi antenna

- Compliant to 3GPP release 10 specifications

- Advanced 2 x 2 MIMO and QAM64 support with Category 6 throughput

- 4 GE LAN ports, 802.11b/g/n/ac MIMO Wi-Fi support

- VPN & full L2/L3 GRE Tunneling clients support

- Router, bridge and by-pass networking, IPv4 &v6 and Multiple PDN support

- FTP, HTTP, HTTPS and TR-069 management support

Basic Introduction

WA3300E is a cost effective and high performance CAT6 LTE indoor Wi-Fi CPE product specially designed to enable quick and easy LTE fixed data service deployment for residential and SOHO customers. It provides high speed LAN, Wi-Fi integrated services to end users who need both bandwidth and multi-media data service in residential homes or enterprises.

RELIABLE PERFORMANCE

WA3300E is an advanced multiport indoor Wi-Fi CPE based on the standard implementation of 3GPP Release 10 specifications. With built-in high gain LTE antenna, it enables a longer reception range from the base station. This yields more efficient use of the network with a larger cell reach, guaranteed carrier class service, and customer service probability.

The device has 4 GE LAN ports, high performance 2 x 2 MIMO and QAM64 capabilities, 802.11b/g/n/ac Wi-Fi, advanced routing, and firewall software for security. It provides an effective all-in-one solution to SOHO or residential customers. It can deliver up to 300Mbps max LTE data throughput which can be very competitive to wired broadband access service.

EASY USAGE & MANAGEMENT

WA3300E is a user-friendly LTE CPE and very easy to configure and setup. Subscribers can just connect the device to their computer or home switch/router and the device is ready to offer an experience of surfing over Internet. The external antenna option gives user the capability to extend coverage using external high gain antenna. The LEDs on the WA3300E have also been designed for user convenience, and offer a clear sign of what the device is doing. The compact design is well suited for enterprise and residential users.

WA3300E offers rich management features which facilitate the task of service provider. It supports local management access, Telnet, WEB, and centralized remote OTA configuration, upgrades management and device monitoring via standard TR-069 ACS system.

TECHNICAL FEATURES

WA3300E is fully compliant to the 3GPP release 10 specifications. It offers standard support for advanced features such as Carrier Aggregation, MIMO and AMC to maximize the system capacity and bandwidth throughput. The use of OFDM modulation enhances performance in non-line-of-sight conditions to ensure immunity to interference and multi-path conflicts typical of deployments in urban areas. Sophisticated QoS capabilities ensure true end-to-end QoS and support for high quality data services.

Technical Specifications

Physical	Dimensions	162mm(W) x 60mm(D) x 155mm(H)
	Weight	< 450g
	Power consumptions	< 10W
	Power Supply	12V/1A DC Adapter
Environmental	Operating Temperature	-15℃ to 55℃
	Storage Temperature	-40℃ to 85℃
	Humidity	90% max non-condensing
Radio Interface	Radio Access	3GPP Release 10
	Chipset	ASR 1828 CAT6
	Operation Mode	FDD & TDD, DL 300Mbps, UL 50Mbps
	Frequency Band	EU
		LTE-FDD: B1/B3/B5/B7/B8/B20/B28/32
		LTE-TDD: B38/B40/B41/B42/B43
		WCDMA: B1/B5/B8
	MIMO & Modulation	DL 2x2 MIMO, QPSK/QAM16/QAM64
	Receive Sensitivity	Compliance with 3GPP standard
	Output Power	23dBm
	Antenna	3-5dBi (Built-in or SMA stub antenna)
Wi-Fi Interface	Radio Access	IEEE802.11b/g/n/ac (AC1200 Dual band)
	MIMO	2 x 2 (2.4GHz 300Mbps, 5GHz 866Mbps)
	Output Power	16dBm
	Antenna	3-5dBi
	Connected Users	32
	Security	64/128-bit WEP, WPA/WPA2
User Interface	Data Interface	4 RJ45 10/100M/1000M ETH Port
	LED Indicators	SYS, NET, Wi-Fi, SMS, BAT, RF(4LEDs)
	SIM Support	1.8V/3.0V USIM 2FF

Technical Specifications

Software Specifications	Networking Configuration	Router and L3 Bridge Operation Support
		Built-in DHCP Server for LAN Devices
		IPv4, and IPv6 DS-Lite Support for LTE
		Multiple PDN Interface Support
	Data Networking Features	VPN Pass-through support (PPTP, L2TP & IPsec)
		Built-in L2TP & GRE Tunneling Client Support
		DNS Proxy Support
		Firewall & Access Control
		DMZ and Virtual Server Support
		IP and Port Forwarding Support
		Local and Remote Management Restriction
		Application Firewall Support
		NTP Service Support
	Device Management	CLI, Telnet, HTTP and HTTPS Management Interfaces
		Standard Based TR-069 Management
		FTP and HTTP OTA Firmware Upgrade
		USIM and PLMN Locking Support
		Device Factory Default Setting

WA3400D
CAT6 LTE Indoor CPE

Leading indoor wireless broadband access equipment

Key Features

- Cost effective & compact design with built-in high gain LTE and WiFi antenna

- Compliant to 3GPP Release 12 specifications

- Advanced 2 x 2 MIMO and 2CA support with Category 6 throughput

- 4 GE LAN ports, and 802.11b/g/n/ac dual band MIMO WiFi support

- VPN & full L2/L3 GRE Tunneling clients support

- Router, bridge and by-pass networking, IPv4 &v6 and Multiple PDN support

- FTP, HTTP, HTTPS and TR-069 management support

Basic Introduction

WA3400D is a cost effective and high performance CAT6 LTE indoor WiFi CPE product specially designed to enable quick and easy LTE fixed data service deployment for residential and SOHO customers. It provides high speed LAN and WiFi integrated services to end users who need both bandwidth and multi-media data service in residential homes or enterprises.

RELIABLE PERFORMANCE

WA3400D is an advanced multiport indoor WiFi CPE based on the standard implementation of LTE Release 12 specifications. With built-in high gain LTE antenna, it enables a longer reception range from the base station. This yields more efficient use of the network with a larger cell reach, guaranteed carrier class service, and customer service probability.

The device has 4 Gigabit LAN ports, high performance 2 x 2 MIMO and 2CA capabilities, 802.11b/g/n/ac dual band WiFi, advanced routing and firewall software for security. It provides an effective all-in-one solution to SOHO or residential customers. It can deliver up to 300Mbps max data throughput which can be very competitive to wired broadband access service.

EASY USAGE & MANAGEMENT

WA3400D is a user-friendly LTE CPE and very easy to configure and setup. Subscribers can just connect the device to their computer or home switch/router and the device is ready to offer an experience of surfing over Internet. The external antenna option gives user the capability to extend coverage using external high gain antenna. The LEDs on the WA3400D have also been designed for user convenience, and offer a clear sign of what the device is doing. The compact design is well suited for enterprise and residential users.

WA3400D offers rich management features which facilitate the task of service provider. It supports local management access, Telnet, WEB, and centralized remote OTA configuration, upgrades management and device monitoring via standard TR-069 ACS system.

TECHNICAL FEATURES

WA3400D is fully compliant to the LTE release 12 specifications. It offers standard support for advanced features such as Carrier Aggregation, MIMO and AMC to maximize the system capacity and bandwidth throughput. The use of OFDM modulation enhances performance in non-line-of-sight conditions to ensure immunity to interference and multi-path conflicts typical of deployments in urban areas. Sophisticated QoS capabilities ensure true end-to-end QoS and support for high quality data services.

Technical Specifications

Physical	Dimensions	180mm x 150mm x 48mm
	Weight	< 350g
	Power consumptions	< 10W
	Power Supply	12V/1.0A DC Adapter
Environmental	Operating Temperature	-15℃ to 55℃
	Storage Temperature	-40℃ to 85℃
	Humidity	90% max non-condensing
Radio Interface	Radio Access	3GPP Release 12
	Chipset	Qualcomm SDX12 CAT6
	Operation Mode	FDD & TDD, DL 300Mbps, UL 50Mbps
	Frequency Band	EU LTE-FDD: B1/B3/B5/B7/B8/B20/B28/B32 LTE-TDD: B38/B40/B41 WCDMA: B1/B3/B5/B8
	MIMO & CA Support	DL 2x2 MIMO, Intra-band and Inter-band CA (up to 2CC)
	Receive Sensitivity	Compliance with 3GPP standard
	Output Power	23dBm
	Antenna	3-5dBi (Built-in)
WiFi Interface	Radio Access	IEEE802.11b/g/n/ac
	MIMO	2 x 2
	Output Power	18dBm
	Antenna	3-4dBi
	Connected Users	64
	Security	64/128-bit WEP, WPA/WPA2
User Interface	Data Interface	4 RJ45 10/100/1000M ETH Port
	LED Indicators	Power, SYS, Net, 2.4GHz WiFi, 5GHz, RF(5LEDs)
	SIM Support	1.8V/3.0V USIM 2FF

Technical Specifications

Software Specifications	Networking Configuration	Router and L3 Bridge Operation Support
		Built-in DHCP Server for LAN Devices
		IPv4, and IPv6 DS-Lite Support for LTE
		Multiple PDN Interface Support
	Data Networking Features	VPN Pass-through support (PPTP, L2TP & IPsec)
		Built-in L2TP & GRE Tunneling Client Support
		DNS Proxy Support
		Firewall & Access Control
		DMZ and Virtual Server Support
		IP and Port Forwarding Support
		Local and Remote Management Restriction
		Application Firewall Support
		NTP Service Support
	Device Management	CLI, Telnet, HTTP and HTTPS Management Interfaces
		Standard Based TR-069 Management
		FTP and HTTP OTA Firmware Upgrade
		USIM and PLMN Locking Support
		Device Factory Default Setting

WA3500D
CAT6 LTE Indoor CPE

Leading indoor wireless broadband access equipment

Key Features

- Cost effective & compact design with built-in high gain LTE and WiFi antenna

- Compliant to 3GPP Release 12 specifications

- Advanced 4 x 4 MIMO and 2CA support with Category 6 throughput

- 4 GE LAN ports, optional VoLTE Line, and 802.11b/g/n/ac dual band MIMO WiFi support

- VPN & full L2/L3 GRE Tunneling clients support

- Router, bridge and by-pass networking, IPv4 &v6 and Multiple PDN support

- FTP, HTTP, HTTPS and TR-069 management support

- UPS battery backup option

Basic Introduction

WA3500D is a cost effective and high performance CAT6 LTE indoor WiFi & VoLTE CPE product specially designed to enable quick and easy LTE fixed data service deployment for residential and SOHO customers. It provides high speed LAN, WiFi and VoLTE integrated services to end users who need both bandwidth and multi-media data service in residential homes or enterprises.

RELIABLE PERFORMANCE

WA3500D is an advanced multiport indoor WiFi & VoLTE CPE based on the standard implementation of LTE Release 12 specifications. With built-in high gain LTE antenna, it enables a longer reception range from the base station. This yields more efficient use of the network with a larger cell reach, guaranteed carrier class service, and customer service probability.

The device has 4 Gigabit LAN ports, 1 optional RJ11 analog phone port, high performance 4x4 MIMO and 2CA capabilities, 802.11b/g/n/ac dual band WiFi, advanced routing and firewall software for security. It provides an effective all-in-one solution to SOHO or residential customers. It can deliver up to 300Mbps max data throughput which can be very competitive to wired broadband access service.

EASY USAGE & MANAGEMENT

WA3500D is a user-friendly LTE CPE and very easy to configure and setup. Subscribers can just connect the device to their computer or home switch/router and the device is ready to offer an experience of surfing over Internet. The external antenna option gives user the capability to extend coverage using external high gain antenna. The LEDs on the WA3500D have also been designed for user convenience, and offer a clear sign of what the device is doing. The compact design is well suited for enterprise and residential users.

WA3500D offers rich management features which facilitate the task of service provider. It supports local management access, Telnet, WEB, and centralized remote OTA configuration, upgrades management and device monitoring via standard TR-069 ACS system.

TECHNICAL FEATURES

WA3500D is fully compliant to the LTE release 12 specifications. It offers standard support for advanced features such as Carrier Aggregation, MIMO and AMC to maximize the system capacity and bandwidth throughput. The use of OFDM modulation enhances performance in non-line-of-sight conditions to ensure immunity to interference and multi-path conflicts typical of deployments in urban areas. Sophisticated QoS capabilities ensure true end-to-end QoS and support for high quality data services.

Technical Specifications

Physical	Dimensions	170mm x 138mm x 55mm	
	Weight	< 350g	
	Power consumptions	< 10W	
	Power Supply	12V/1.0A DC Adapter (Optional UPS Battery Backup)	
Environmental	Operating Temperature	-15℃ to 55℃	
	Storage Temperature	-40℃ to 85℃	
	Humidity	90% max non-condensing	
Radio Interface	Radio Access	3GPP Release 12	
	Chipset	Qualcomm SDX12 CAT6	
	Operation Mode	FDD & TDD, DL 300Mbps, UL 50Mbps	
	Frequency Band	EU(DL 4x4)	NA&LA(DL 4x4)
	LTE-TDD	B38/B40/B41/B42/B46/B43/B48	B40/B41/B42/B43/B48
	LTE-FDD	B1/B3/B5/B7/B8/B20/B28/B32	B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B28/B66/B71
	WCDMA	B1/B3/B5/B8	B2/B4/B5
	MIMO & CA Support	DL 4x4 MIMO, Intra-band and Inter-band 2C, UL QAM16	
	Receive Sensitivity	Compliance with 3GPP standard	
	Output Power	23dBm	
	Antenna	3-5dBi (Built-in), Plus 2 external antenna SMA connectors	
WiFi Interface	Radio Access	IEEE802.11b/g/n/ac (MT7615)	
	MIMO	2 x 2	
	Output Power	18dBm	
	Antenna	3-4dBi	
	Connected Users	32 +	
	Security	64/128-bit WEP, WPA/WPA2	
User Interface	Data Interface	4 RJ45 10/100/1000M ETH Port	
	Line Interface (Optional)	1 RJ11 Port (optional)	
	LED Indicators	Power, SYS, Net, 2.4GHz WiFi, 5GHz, LINE, RF(5LEDs)	
	SIM Support	1.8V/3.0V USIM 2FF	
VoLTE Services (Optional)	Basic Call	AMR-NB & AMR-WB, Caller ID Name & Number display	
	Supplementary Call Features	Communication Forwarding Barring of Incoming/Outgoing Calls Communication Hold & Waiting Ad-Hoc 3-Party Conference Message Waiting Indication Communication Diversion/Forward	
	DSP Processing	Adaptive Multi-Rate speech codec (AMR) AMR wideband codec Narrowband 8KHz & Wideband 16KHz Support DTMF Tone Generation and Detection Call Progress Tone Generation	

Technical Specifications

Software Specifications	Networking Configuration	Router and L3 Bridge Operation Support
		Built-in DHCP Server for LAN Devices
		IPv4, and IPv6 DS-Lite Support for LTE
		Multiple PDN Interface Support
	Data Networking Features	VPN Pass-through support (PPTP, L2TP & IPsec)
		Built-in L2TP & GRE Tunneling Client Support
		DNS Proxy Support
		Firewall & Access Control
		DMZ and Virtual Server Support
		IP and Port Forwarding Support
		Local and Remote Management Restriction
		Application Firewall Support
		NTP Service Support
	Device Management	CLI, Telnet, HTTP and HTTPS Management Interfaces
		Standard TR-069 & SNMP Management
		FTP and HTTP OTA Firmware Upgrade
		USIM and PLMN Locking Support
		Device Factory Default Setting

WA310

CAT4 LTE CPE

Leading indoor wireless broadband access equipment

Key Features

- 3GPP Release 9

- UE Category 4

- LTE & WCDMA

- 802.11 b/g/n

- WiFi4 150M

- 1xRJ45 FE port

- LTE Chipset: ASR1803s

- WiFi Chipset: ASR5803

- Battery:3000mah(optional)

Specification

Dimensions	160.0*46.0*223.0mm(including External Antenna)		
Weight	320g（With Accessories and Package)		
Form	LTE Desk Router		
Chipset	Chipset	ASR1803s	
	Frequency Bands	LTE	B1/B3/B5/B7/B8/B20/B28/B38/B40/B41(can be customized)
		UMTS	B1/B5/B8
	Antenna	Internal	2* External Antannas(undetachable)
	RF Power Level	LTE FDD	Power Class 3 (23 +/-2dBm)
		UMTS	Power Class 3 (24 +1.7/-3.7dBm)
	Data Rate	4G	3GPP Cat. 4, Downlink/Uplink up to 150Mbps/50Mbps
		3G	3GPP Downlink/Uplink up to 21Mbps/5.76Mbps
WLAN	Chipset	ASR5803	
	Wi-Fi	Frequency	2.4GHz
		Protocol	IEEE 802.11b/g/n
		Antenna	Internal, 1 x 1
	Data Rate	802.11b	Up to 11 Mbps
		802.11g	Up to 54 Mbps
		802.11n	Up to 150Mbps
Power Supply	12V/1A		
Interface	LAN	RJ45 port*1	
	USIM	Single, 2FF SIM	
	USB	MicroUSB	
	DC	12V/1A interface	
LED	Power	Power Status Indicator(Single: Bule *1)	
	WIFI	2.4G Wi-Fi Status Indicator(Single: Blue *1)	
	INTERNET	Network Status Indicator(Blue*1)	
	Lan	LAN status Indicator(Blue*1)	
	Signal	LTE signal strength(Single: Blue *4)	
Button	WPS Key	Enable WPS	
	Power Key	Power on/off switch	
	WIFI Key	WIFI on/off switch	
	Reset Key	Restore Factory Settings	
Memory	128Mb Norflash+256Mb SDR		

Specification

Features	WebUI	Internet	Connection mode .APN setting
			PIN managment
			Band lock
			Manual Network
			Traffic Statistics
			USSD
		Home Network	DHCP Setting
			Connected Devices
			Firewall rules
			Port Filter
			Port Forwarding
			Network Activity log
		Router	SMS
			Wireless setting
			Wireless MAC filter
			User management
			Configuration Management
			Reboot
			Time setting
			Language
			Dashboard
Operation System	Windows	Win7/8/10	
	MAC OS	10.10+	
	Linux	Ubuntu 15.04+	
	Browser	IE9+, Firefox, Google Chrome, Safari, Opera	
Temperature	Working Temperature	-10。C to +40。C	
	Storage Temperature	-20。C to +85。C	

CAT4 LTE CPE

Leading indoor wireless broadband access equipment

Key Features

- 3GPP Release 9

- UE Category 4

- LTE & WCDMA

- 802.11 b/g/n, 2x2 MIMO

- WiFi4 N300

- 1xRJ45 FE port

- 1xRJ11(optional)

- LTE Chipset: ZX297520V3

- WiFi Chipset: Realtek RTL8192ES

- Battery:2500/5000/7500mah(optional)

Specification

Dimensions	185*60*295mm(including External Antenna)		
Weight	300g（With Accessories and Package)		
Form	LTE Desk Router		
Chipset	Chipset	ASR1803s	
	Frequency Bands	LTE	B1 / B3 / B5 / B8 / B34 / B38 / B39 / B40 / B41(can be customized)
		UMTS	B1 / B5 / B8
	Antenna	Internal	2* External Antennas(undetachable)
	RF Power Level	LTE FDD	Power Class 3 (23 +/-2dBm)
		UMTS	Power Class 3 (24 +1.7/-3.7dBm)
	Data Rate	4G	3GPP Cat. 4, Downlink/Uplink up to 150Mbps/50Mbps
		3G	3GPP Downlink/Uplink up to 21Mbps/5.76Mbps
WLAN	Chipset	MTK MT7628N	
	Wi-Fi	Frequency	2.4GHz
		Protocol	IEEE 802.11b/g/n
		Antenna	Internal, 2 x 2
	Data Rate	802.11b	Up to 11 Mbps
		802.11g	Up to 54 Mbps
		802.11n	Up to 300 Mbps
Power Supply	12V/1A		
Interface	Voice	RJ11 port*1, Voice cell (optional)	
	LAN	RJ45 port*4	
	USIM	2FF SIM	
	DC	12V/1A interface	
LED	Power	Power Status Indicator(Single: Blue *1)	
	WIFI	2.4G Wi-Fi Status Indicator(Single: Blue *1)	
	ETH	RJ45 interface Network Status Indicator(Single: Blue *1)	
	4G	4G Network Status Indicator(Single: Blue *1)	
	3G	3G Network Status Indicator(Single: Blue *1)	
	DATA	Data Indicator(Single: Blue *1)	
	Battery level	battery level Status Indicator (Single: Blue *4) optional	
Button	WPS Key	Enable WPS	
	Power Key	Power on/off switch	
	Battery level Key	Press to display battery level (optional)	
	Reset Key	Restore Factory Settings	
Memory	128Mb Norflash+512Mb DDR		

Specification

Features	WebUI	Wizard	Note，APN Setting，LAN Setting，Wi-FiS etting，Complete
		Basic Information	Device Information
			Network Information
			DHCP Client List
			Wi-Fi Client List
		Network Setting	Internet
			Cellular Setting
			Band Lock
			Internet Backup
			Online Checker
		LAN Setting	2.4G WiFi Setting
			Wi-Fi MAC Filter
			LAN Setting
		Network App	DMZ
			Port Mapping
			VPN Client
		System Mangement	Password Mangement
			Date Time Setting
			Reboot Schedule
			Language
		Debug Tool	System Log
		Device Management	System Upgrade，Configure Management，Device Maintenance
Operation System	Windows	Win7/8/10	
	MAC OS	10.10+	
	Linux	Ubuntu15.04+	
	Browser	IE9+,Firefox,Google,Chrome,Safari,Opera	
Temperature	Working Temperature		-10。Cto+40。C
	Storage Temperature		-20。Cto+85。C

WA350

CAT4 LTE CPE

Leading indoor wireless broadband access equipment

Key Features

• 3GPP Release 9

• UE Category 4

• LTE & WCDMA

• 802.11 b/g/n, 2x2 MIMO

• WiFi4 N300

• 4xRJ45 FE ports

• 1xRJ11 port（optional）

• LTE Chipset: ASR1803s

• WiFi Chipset: MTK MT7628N

• Battery:7.4V 2 x 2000mAh (optional)

Specification

Dimensions	185*60*295mm(including External Antenna)		
Weight	300g（With Accessories and Package)		
Form	LTE Desk Router		
Chipset	Chipset	ASR1803s	
	Frequency Bands	LTE	B1 / B3 / B5 / B8 / B34 / B38 / B39 / B40 / B41(can be customized)
		UMTS	B1 / B5 / B8
	Antenna	Internal	2* External Antannas(undetachable)
	RF Power Level	LTE FDD	Power Class 3 (23 +/-2dBm)
		UMTS	Power Class 3 (24 +1.7/-3.7dBm)
	Data Rate	4G	3GPP Cat. 4, Downlink/Uplink up to 150Mbps/50Mbps
		3G	3GPP Downlink/Uplink up to 21Mbps/5.76Mbps
WLAN	Chipset	MTK MT7628N	
	Wi-Fi	Frequency	2.4GHz
		Protocol	IEEE 802.11b/g/n
		Antenna	Internal, 2 x 2
	Data Rate	802.11b	Up to 11 Mbps
		802.11g	Up to 54 Mbps
		802.11n	Up to 300 Mbps
Power Supply	12V/1A		
Interface	Voice	RJ11 port*1, Voice cell (optional)	
	LAN	RJ45 port*4	
	USIM	2FF SIM	
	DC	12V/1A interface	
LED	Power	Power Status Indicator(Single: Blue *1)	
	WIFI	2.4G Wi-Fi Status Indicator(Single: Blue *1)	
	ETH	RJ45 interface Network Status Indicator(Single: Blue *1)	
	4G	4G Network Status Indicator(Single: Blue *1)	
	3G	3G Network Status Indicator(Single: Blue *1)	
	DATA	Data Indicator(Single: Blue *1)	
	Battery level	battery level Status Indicator (Single: Blue *4) optional	
Button	WPS Key	Enable WPS	
	Power Key	Power on/off switch	
	Battery level Key	Press to display battery level (optional)	
	Reset Key	Restore Factory Settings	
Memory	128Mb Norflash+512Mb DDR		

Specification

Features	WebUI	Wizard	Note，APN Setting，LAN Setting，Wi-FiS etting，Complete
		Basic Information	Device Information
			Network Information
			DHCP Client List
			Wi-Fi Client List
		Network Setting	Internet
			Cellular Setting
			Band Lock
			Internet Backup
			Online Checker
		LAN Setting	2.4G WiFi Setting
			Wi-Fi MAC Filter
			LAN Setting
		Network App	DMZ
			Port Mapping
			VPN Client
		System Mangement	Password Mangement
			Date Time Setting
			Reboot Schedule
			Language
		Debug Tool	System Log
		Device Management	System Upgrade，Configure Management，Device Maintenance
Operation System	Windows	Win7/8/10	
	MAC OS	10.10+	
	Linux	Ubuntu15.04+	
	Browser	IE9+,Firefox,Google,Chrome,Safari,Opera	
Temperature	Working Temperature	-10。Cto+40。C	
	Storage Temperature	-20。Cto+85。C	

WA360
CAT7 LTE CPE
Leading indoor wireless broadband access equipment

Key Features

• 3GPP Release 10

• UE Category 6

• LTE & WCDMA

• 802.11 a/b/g/n/ac, 2x2 MIMO

• WiFi5 AC1200

• 4xRJ45 FE ports

• 1xRJ11 port

• LTE Chipset: ASR1828

• WiFi Chipset: MTK MT7628A+7613B

• Battery:7.4V 2 x 2000mAh (optional)

Specification

Dimensions	185*60*295mm(including External Antenna)		
Weight	320g（With Accessories and Package)		
Form	LTE Desk Router		
Chipset	Chipset	ASR1828	
	Frequency Bands	LTE	B1/ 3/ 5/ 7/ 8/ 20/ 28/ 32 / 38/ 40/ 41(B42/ B43 optional)
		UMTS	B1/ 5/ 8
	Antenna	Internal	4* External Antannas(undetachable)
	RF Power Level	LTE FDD	Power Class 3 (23 +/-2dBm)
		UMTS	Power Class 3 (24 +1.7/-3.7dBm)
	Data Rate	4G	3GPP Cat. 6, Downlink/Uplink up to 300Mbps/ 100Mbps
		3G	3GPP Downlink/Uplink up to 21Mbps/5.76Mbps
WLAN	Chipset	MTK MT7628A+7613B	
	Wi-Fi	Frequency	2.4GHz, 5.8GHz
		Protocol	IEEE 802. 11a/b/g/n/ac
		Antenna	Internal, 2 x 2
	Data Rate	802.11b	Up to 11 Mbps
		802. 11g	Up to 54 Mbps
		802. 11n	Up to 300 Mbps
		802. 11ac	Up to 866 Mbps
Power Supply	12V/ 1.5A		
Interface	Voice	RJ11 port*1, Voice cell (optional)	
	LAN	RJ45 FE port*4	
	USIM	2FF SIM	
	DC	12V/ 1.5A interface	
LED	Power	Power Status Indicator(Single: Blue *1)	
	WIFI 2.4G	2.4G Wi-Fi Status Indicator(Single: Blue *1)	
	WIFI 5.8G	5.8G Wi-Fi Status Indicator(Single: Blue *1)	
	ETH	RJ45 interface Network Status Indicator(Single: Blue *1)	
	4G	4G Network Status Indicator(Single: Blue *1)	
	3G	3G Network Status Indicator(Single: Blue *1)	
	DATA	Data Indicator(Single: Blue *1)	
	Battery level	Battery level Status Indicator (Single: Blue *4) optional	
Button	WPS Key	Enable WPS	
	Power Key	Power on/off switch	
	Battery level Key	Press to display battery level optional	
	Reset Key	Restore Factory Settings	
Memory	128Mb Norflash+512Mb DDR		

Specification

Features	WebUI	Wizard	Note，APN Setting，LAN Setting，Wi-Fi Setting，Complete
		Basic Information	Device Information
			Network Information
			DHCP Client List
			Wi-Fi Client List
		Network Setting	Internet
			Cellular Setting
			Band Lock
			Internet Backup
			Online Checker
		LAN Setting	2.4G WiFi Setting
			5.8G WiFi Setting
			Wi-Fi MAC Filter
			LAN Setting
		Network App	DMZ
			Port Mapping
			VPN Client
		System Mangement	Password Mangement
			Date Time Setting
			Reboot Schedule
			Language
		Debug Tool	System Log
		Device Management	System Upgrade，Configure Management，Device Maintenance
Operation System	Windows	Win7/8/10	
	MAC OS	10.10+	
	Linux	Ubuntu15.04+	
	Browser	IE9+,Firefox,Google,Chrome,Safari,Opera	
Temperature	Working Temperature	-10。Cto+40。C	
	Storage Temperature	-20。Cto+85。C	

WA821

CAT6 LTE Indoor CPE

Leading indoor wireless broadband access equipment

Key Features

- 3GPP Release 12

- UE Category 6

- LTE & WCDMA

- Wi-Fi 6 AX3000

- 802.11 b/g/n/ac/ax

- 2 x RJ45

- LTE Chipset: Qualcomm SDX12

- Wi-Fi Chipset: Qualcomm IPQ5018+QCN6102

RF Specifications

Support Bands	EMEA/APAC: LTE FDD: B1/3/5/7/8/20/28/32 LTE TDD: B38/40/41(120M)WCDMA: B1/3/5/8 North America: LTE FDD: B2/4/5/7/12/13/14/17/25/26/29/30/66/71 LTE TDD: B41(194M)/46/48 WCDMA: B2/4/5 Latin America: FDD: B1/2/3/4/5/7/8/20/28/66 TDD: B38/40/41/42/43 WCDMA: B1/2/4/5/8
Peak Throughput	LTE CAT 6, 300 Mbps (DL)/50 Mbps (UL)
CA	DL Inter/Intra 2CA
MIMO	DL 2x2 MIMO
Output Power@25℃	23±2 dBm

LTE Antenna Gain		
700M~1G	1.5G~2.7G	3.4G~3.8G
1dBi	3dBi	5dBi

Wi-Fi Frequency	Wi-Fi Antenna	Wi-Fi Output Power	Wi-Fi Channel BW	Wi-Fi Antenna Gain
2.4G/5GHz Dual Band	2x2 MIMO	19dBm@2.4G 16dBm@5GHz	20/40/80/160 MHz	3.5dBi

Hardware Specifications

Chipset	Qualcomm SDX12 + IPQ5018 + QCN6102
LTE standard	3GPP Release 12 CAT6
Flash	128MB Nand Flash
RAM	512MB LPDDR3x
Ethernet LAN Port	2 * LAN: 10/100/1000 auto-sensing, auto-MDI/MDIX
LED	8 LED Indicators (PWR, Wi-Fi*2, NET, RF Signal*4)
SIM	1 * USIM/SIM (3FF)
Button	Reset/Reboot
LTE Antenna	Built-in 2 Omni Antennas
WIFI Antenna	2.4Gx2 + 5Gx2 Separate Built-in Omni Antennas
Dimensions	196mm x 158 mm x 42mm
Weight	< 450g
Power Consumption	< 18W
Power Supply	AC input 100~240V DC output 12V 1.5A

Software Specifications

Operation Mode	NAT mode Bridge
Device Management	TR069 WebUI Software Upgrade – Local/FOTA
Device statistic	WAN statistic LAN statistic
Network Protocols and Features	NAT SNTP/NITZ VLAN(optional) PPPoE(optional) Ethernet mode Virtual server and DMZ DNS relay and DDNS DHCP server/client IPV4/IPv6 Dual Stack UPnP Parents control
VPN	L2TP over IPsec L2TP V2/V3 GRE L2/L3 PPTP
Security and Firewall	MAC Address Filtering IP Address Filtering URL Filtering DDOS
Wi-Fi functions	Maximum users: 32 Encryption: WPA-PSK (TKIP), WPA-PSK (AES), WPA2-PSK (TKIP), WPA2-PSK (AES) Hide SSID broadcasting AP Isolation Guest network
System	Syslog Network diagnose Reset factory default Configuration backup/restore Web account configuration Scheduling Auto-Reboot

Appendix-Deliveries

Assembled product	1 PCS
Ethernet cable	1 PCS
Adapter	1 PCS
Quick Start Guide	1 PCS

WA421V

CAT12 LTE Indoor CPE

Leading indoor wireless broadband access equipment

Key Features

• 3GPP Release 12

• UE Category 12

• LTE & WCDMA

• Wi-Fi 6 AX3000

• 802.11 b/g/n/ac/ax

• 2xRJ45, 1xRJ11(optional)

• LTE Chipset: Qualcomm SDX12

• WiFi Chipset: Qualcomm IPQ5018

RF Specifications

Support Bands	4G:
	  FDD B1/3/5/7/8/20/28
	  TDD B38
	3G:
	  1/3/5/8
	Can be customized.

Peak Throughput	LTE CAT 12, 600 Mbps (DL)/150 Mbps (UL)
CA	DL Inter/Intra 4CA
MIMO	DL 4x4 MIMO
Output Power@25℃	23±2 dBm

LTE Antenna Gain		
700M~1G	1.5G~2.7G	3.4G~3.8G
3dBi	4.6dBi	4.6dBi

Wi-Fi Frequency	Wi-Fi Antenna	Wi-Fi Output Power	Wi-Fi Channel BW	Wi-Fi Antenna Gain
2.4G/5GHz Dual Band	2 Built-in	19dBm@2.4G 16dBm@5GHz	20/40/80/160 MHz	3dBi

Hardware Specifications

Chipset	Qualcomm SDX12 Qualcomm IPQ5018
LTE standard	3GPP Release 12 CAT12
Flash	4Gb
RAM	4Gb
Ethernet LAN Port	2 * LAN: 10/100/1000 auto-sensing, auto-MDI/MDIX
Voice POTS Port	1 * Voice
LED	8 LED Indicators (PWR, Wi-Fi, TEL, NET, RF Signal*4, Charge)
SIM	1 * USIM/SIM (3FF)
Button	Reset/Reboot
LTE Antenna	2 Built-in, 2 external
WIFI Antenna	2 Built-in
Dimensions	204 mm x 158mm x 41.5mm
Weight	< 300g
Power Consumption	< 18W
Power Supply	AC input 100~240V DC output 12V 2.5A

Software Specifications

Operation Mode	NAT mode Bridge
Device Management	TR069 WebUI Software Upgrade – Local/FOTA
Device statistic	WAN statistic LAN statistic
Network Protocols and Features	NAT SNTP/NITZ VLAN(optional) PPPoE(optional) Ethernet mode Virtual server and DMZ DNS relay and DDNS DHCP server/client IPV4/IPv6 Dual Stack UPnP Parents control
VPN	L2TP over IPsec L2TP V2/V3 GRE L2/L3 PPTP
Security and Firewall	MAC Address Filtering IP Address Filtering URL Filtering DDOS
VoLTE functions	Call Waiting Call Hold /Resume Call Forward Call Transfer 3-Way conferencing Caller ID display/blocking
Wi-Fi functions	Maximum users: 32 Encryption: WPA-PSK (TKIP), WPA-PSK (AES), WPA2-PSK (TKIP), WPA2-PSK (AES) Hide SSID broadcasting AP Isolation Guest network
System	Syslog Network diagnose Reset factory default Configuration backup/restore Web account configuration Scheduling Auto-Reboot

Appendix-Deliveries

Assembled product	1 PCS
Ethernet cable	1 PCS
Adapter	1 PCS
Quick Start Guide	1 PCS

OWA721
4G CPE Combo

Leading outdoor wireless broadband access equipment.

Key Features

- 3GPP R12 Standard

- FDD/TDD Support

- Up to 4x4MIMO/4CA

- LTE CAT.6

- 100/1000Mbps Ethernet Port

- Wi-Fi4/5

- IP65 rated waterproof and dustproof

Parameters & Performance

Downlink/Uplink	CAT6
Water/DustProof	IP65(IP3X Router)
LTE FDD*1	B1,B2,B3,B4,B5,B7,B8,B18, B19,B20,B28,B31,B32
LTE TDD*1	B34,B38,B39,B40,B41,B42, B43,B46,B48,B66
MIMO:LTE DL	4*4MIMO:B1,B3,B7,B32,B38,B40,B41,B42,B43
MIMO:LTE UL	1*1/2*2MIMO
Wi-Fi	WiFi4/WiFi5 2.4G 2x2/5.8G 2x2 MIMO
Antenna of WiFi*2	4
PoE	Yes
LAN cable length Max(m)	100
Antenna of LTE*2	4
Ethernet Port Speed(Mbps)	100/1000
I/O Port of ODU	1*LAN,1*USIM Slot(2FF), 1*RESET
I/O Port of Router	2*LAN,1*WAN/PoE,1*DC JACK, 1*RESET,1*POWER SWITCH, 1*RJ11(optional)
ODU Size(mm)	279.6*164*56.1
Size of Router(mm)	186.3*170.29*64.27
Weight(kg)	0.718
Weight of Router(kg)	0.38
Working Temperature	-20~55°C (0-45°C Router)

* 1　The frequency band of the device can be customized, please contact sales for specific frequency band combination and MIMO/ CA capabilities
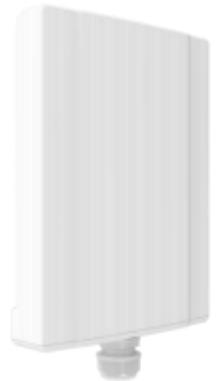* 2　ALL of the antennas are internal high gain directional antenna

WA5500M

4G CPE Combo

Leading outdoor wireless broadband access equipment

Key Features

- Cost effective & compact design with built-in high gain LTE and Wi-Fi antenna

- Full compliance to 3GPP LTE Release 11 specifications

- Advanced 2X8 MIMO & CA (2CC & 4CC) support and Category 12 throughput

- Dual LAN ports, SIP 2.0 VoIP and 802.11b/g/n/ac MIMO Wi-Fi support

- Router, bridge and by-pass networking, IPv4 &v6 and Multiple PDN support

- Built-in VPN and L2/L3 GRE client support

- FTP, HTTP and TR-069 management support

AirMaster5500M(WA5500M) is a highly advanced CAT12 LTE outdoor multi-service product solution specifically designed to meet integrated data, voice and Wi-Fi access needs for residential, business and enterprise users. The product consists of an outdoor data CPE unit (ODU) and an indoor multiservice gateway unit (Router) that supports advanced networking, VoIP gateway and WLAN AP functionalities. It enables wide service coverage and provides high data throughput and networking features to customers who needs easy broadband access, low cost VoIP service and Wi-Fi connectivity.

RELIABLE PERFORMANCE

WA5500M CPE product provides the standard implementation of LTE release 11 specifications. With the built-in high gain ODU antenna, it enables a longer reception range from eNodeB base station. This help yields more efficient use of network with a larger cell reach, carrier class service, and more customer service probability.

The Router has 2 Gigabit LAN Ports,1 Gigabit WAN Port and 1 RJ11 port, built-in 2x2 MIMO high performance 802.11b/g/n/ac Wi-Fi and software firewall for security, providing an effective all-in-one solution to SOHO or residential customers. It supports LTE release11 CA option and CAT12 data throughput which can be very competitive to wired broadband access service.

EASY USAGE & MANAGEMENT

WA5500M is a user-friendly and easy to setup LTE CPE. The ODU can be powered by the Router WAN PoE interface. The LEDs on the AM5500M have also been designed for user convenience and offer a clear sign of what the device is doing. The compact design is well suited for enterprise and residential user.

The WA5500M offers rich management features which facilitate the task of service provider. It supports local management access, Telnet, WEB, and centralized remote OTA configuration, upgrades management and device monitoring via standard TR-069 ACS systems.

TECHNICAL FEATURES

WA5500M is fully compliant to the LTE Release 11 specification. It offers standard support for advanced 4G features such as MIMO and AMC to maximize the system capacity and bandwidth throughput. The use of 4G modulation enhances performance in non-line-of-sight conditions to ensure immunity to interference and multi-path conflicts typical of deployments in urban areas. Sophisticated QoS capabilities ensure true end-to-end QoS and support for high quality data services. WA5500M has enhanced router function and VPN clients support to enable greater serviceselection and reliability.

Physical	Dimensions	Router 170mm x 138mm x 55mm ODU 286mm x 164mm x 53mm
	Weight	Router < 400g ODU <1Kg
	Power consumptions	< 20W
	Power Supply	24V/1A DC Adapter
	Ingress Protection	IP67
Environmental	Operating Temperature	Router -15℃ to 55℃ ODU -40℃ to 55℃
	Storage Temperature	-40℃ to 85℃
	Humidity	90% max Non-condensing
Wireless Radio Interface (ODU)	Radio Access	3GPP Release11 Category12
	Operation Mode	4Rx, 2Tx, DL 4*4 MIMO Optional UL QAM64
	Frequency Band	LTE B2/B4/B66/B38/B40
	CA Support	DL & UL CA (2CC & 4CC)
	Receive Sensitivity	Compliance with 3GPP standard
	Output Power	23dBm：2dB
	Antenna Gain	13dBi
Wi-Fi Interface (Router)	Radio Access	IEEE802.11b/g/n/ac
	MIMO	2 x 2
	Output Power	15dBm
	Antenna	3dBi built-in antenna
	Connected Users	32
	Security	64/128-bit WEP, WPA/WPA2
User Interface	Data Interface	ODU - LAN Port 1 RJ45 10/100/1000M ETH Port Router - WAN Port 1 RJ45 10/100/1000M ETH Port (PoE), LAN Port 2 RJ45 10/100/1000M ETH Port
	Line Interface	1 RJ11 Port (Router)
	LED Indicators	Router - SYS, NET, SIG, 2.4GHz Wi-Fi, 5GHz Wi-Fi, LINE ODU - SYS, MOD, SIM, ETH, Wi‑ Fi, RF (4 Signal intensity LEDs)
	SIM Support	1.8V/3.0V USIM 2FF (ODU)

VoIP Processing & Services	Compression	G.711 G.721 G.723 G.726 G.729 G.722
	Comfort Noise	Comfort Noise Generation & Control
	Echo Cancellation	G.165/168-2000
	Silence Handling	Silence Detection/Suppression
	Fax Support	T.30 and T.38
	Delay/Jitter/Loss	Jitter and Packet Loss Compensation
	DTMF Relay	In band DTMF, RFC2833, SIP signal
	Call Duration	24+ hours Uninterrupted Call
	Basic Voices	Local, Domestic & International Calling Flexible Dial Plan Configuration Support Tone Customization for Different Countries
	Complementary Services	Caller ID, Caller ID suppression, Call Screening, Speed dial, Call Tracing, Hotline, Unconditional call forwarding, Call Forwarding No Answer, Call Forwarding on Busy, Call Waiting, Call Back, Call Blocking, No Disturbance, Alarm, Network and Local 3-way Call, Data Call, etc.
SW Specifications	Networking Configuration	Router and L3 Bridge Operation Support Built-in DHCP Server for LAN Devices IPv4, and IPv6 DS-Lite Support for LTE Multiple PDN Interface Support
	Data Networking Features	VPN Pass-through support (PPTP, L2TP & IPsec) Built-in L2TP & GRE Tunneling Client Support DNS Proxy Support Firewall & Access Control DMZ and Virtual Server Support IP and Port Forwarding Support Local and Remote Management Restriction Application Firewall Support NTP Service Support LAN Device Access Control
	Device Management	CLI, Telnet, HTTP and HTTPS Management Interfaces Standard Based TR-069 Management FTP and HTTP OTA Firmware Upgrade USIM and PLMN Locking Support Device Factory Default Setting

MF510
5G MiFi

Key Features

- **MTK Solution**

    MT6833 5G NR

    Wi-Fi 5

- **Easy to share**

    2.4 inch screen

    Multiple devices support

    Support up to 16 users

- **Powerful & Last**

    5000mAh capacity for 8 hours working

- **5G NR : 2.77Gbps/1.25 Gbps DL/UL**

- **Designed for portable**

    Light to 195g

    Zero-touch experience

Specification

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Basical Information	Model Name	MF510
	Form Factor	Mobile WiFi
	Dimension	130*70*21.5mm
	Weight	about 195g
	Color	color can be customized
OS	Android 11	
Solution	Wireless chipset supplier	MTK
	Routing and WiFi chipset supplier	MTK
Baseband	Wireless Chipset	MT6833
	Wireless Processor	2xA76 6xA55
	Wireless Processor speed	Up to 2.2 GHz
	Routing and WiFi chipset model	MT6631
	USIM/SIM Slot	Standard 6 PIN SIM card interface 3V SIM card and 1.8V SIM card
	Memory(DDR/NAND)	2GB NAND Flash +8GB LPDDR4
	USB Version	USB 2.0 FULL SPEED
	Interface	USB and Wifi
	Buttons	Power, WPS, Reset(PIN hole)
	TP	2.4" LCM with TP Internet status, Card status, Battery Status, WiFi satus, Message status, etc
Envionment	Operating Temperature	-20 to 45。C
	Storage Temperature	-40 to 60。C
	Humidity	5% to 95%
Artwork	USB Interface Type	Type C/USB2.0
	User manual	1pcs
	Warranty cards	1pcs
	Battery	5000mAh
	USB cable	1pcs

Specification

RF	Chipset	MT6190M
	LTE/5G Main Antenna / MIMO Antenna	Internal
	Wifi Antenna	Internal
	UMTS Band	B1/B2/B5/B8
	LTE band	B1/B3/B5/B7/B8/B20/B28/B38/B40/B41
	5G NR	n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78
	MIMO for Wireless	LTE MHB DL 2*2MIMO LTE LB DL 2*2MIMO LTE LMHB 1*1 SISO 5G NR MHB DL 4*4 MIMO 5G NR LB DL 2*2 MIMO 5G NR UL 1*1 MIMO
	Max. transmitter power	5G NR: +23dBm (Power Class 3) 5G NR: +26dBm (n41/n77/n78/n79 Power Class 2) LTE: +23dBm (Power Class 3) WCDMA/HSDPA:+24dBm (Power Class 3)
	WiFi band	2400MHz-2483.5MHz/5150MHz-5850MHz
	MIMO for WiFi	2.4G 802.11.b/g/n MIMO 1*1 5G 802.11.ac MIMO 1*1
Technical Standard	HSDPA/HSUPA/HSPA+ /DC-HSPA+	DL 42.2Mbps UL 11.5Mbps
	LTE	DL: UP to 391Mbps UL: 150Mbps
	NR	5G NR DL: 2.77Gbps (4*4 MIMO, 256QAM) 5G NR UL: 1.25Gbps (1*1 MIMO, 256QAM)
	WiFi Max Client Number	16
	Wi-Fi Standard	802.11 b/g/n/ac (1*1 MIMO)
	WiFi Security	OPEN & WPA-PSK& WPA2-PSK & WPA-PSK/WPA2-PSK;
	WiFi Speed	433Mbps
	3GPP Release	3GPP Rel 15
	OS	Windows XP SP3 later Windows Vista Windows 7 or later MAC Linux
	Browser	Firefox&SafariOpera&Chrome

Specification

Software	DHCP	
	Port Forwarding	
	IP(port) filter/MAC filter	
	DMZ	
	UPnP	
	WPS	PBC(Push Button Config)/PIN
	RNDIS/ECM	
	SMS	
	SIM-OTA	
	USSD	
	Phonebook	
	NETWORK LOCK	
	Data Statistics	Support
	Language	English by default, can be customized.
	IPv4v6	
	FW upgrade	FOTA

CAT4 LTE MIFI

Leading indoor wireless broadband access equipment

Key Features

- 3GPP Release 9

- UE Category 4

- LTE & WCDMA

- 802.11 b/g/n, 2x2 MIMO

- WiFi4 N300

- 2000mah battery(undetachable)

- Micro-USB 2.0 port

- LTE Chipset: Qualcomm MDM9225

- WiFi Chipset: Realtek RTL8192ES

Specification

Dimensions	100.00 x 66.00 x 22.00mm		
Weight	106g		
Form	LTE MIFI		
Chipset	Chipset	Qualcomm MDM9225	
	Frequency Bands	LTE	B1/B3/B7/B8/B20/B38
		UMTS	B1/B8
	Antenna	Internal	2* Internal Antanna
	RF Power Level	LTE FDD	Power Class 3 (23 +/-2dBm)
		UMTS	Power Class 3 (24 +1.7/-3.7dBm)
	Data Rate	4G	3GPP Cat. 4, Downlink/Uplink up to 150Mbps/50Mbps
		3G	3GPP Downlink/Uplink up to 42Mbps/5.76Mbps
WLAN	Chipset	Realtek RTL8192ES	
	Wi-Fi	Frequency	2.4GHz
		Protocol	IEEE 802.11b/g/n
		Antenna	Internal, 2 x 2
	Data Rate	802.11b	Up to 11 Mbps
		802.11g	Up to 54 Mbps
		802.11n	Up to 300 Mbps
Power Supply	5V/1A(optional)		
Interface	USIM	Single, 4FF SIM	
	USB	5V/1A interface	
LED	Power	Power Status Indicator(Tri-colour*1)	
	WIFI	2.4G Wi-Fi Status Indicator(Single: Blue *1)	
	INTERNET	4G/3G Network Status Indicator(Dual-colour *1)	
Button	Power Key	Switch ON/OFF Device	
	WPS Key	Enable WPS	
	Reset Key	Restore Factory Settings	
Memory	2Gb+1Gb		

Features	WebUI	System	Connection Status	
			Statistics	
			Device Management	
			Power Mangement	
		Mobile Service	SMS Manager	
			Automatic APN matching according to USIM	
			Auto Data Connection	
			USSD Service	
			PIN/PUK Management	
			Network Mode Selection(3G/LTE/Auto)	
		Router	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK encryptions	
			IPv4/v6	
			TR069	
			VPN Passthrough	
			PPTP/L2TP	
			MAC Filter / IP Filter	
			Network Time Protocol	
			IP and MAC Address Binding	
			Traffic Control (IP QoS)	
			Access Control, Local Management, Remote Management	
Operation System	Windows	Win7/8/10		
	MAC OS	10.10+		
	Linux	Ubuntu 15.04+		
	Browser	IE9+, Firefox, Google Chrome, Safari, Opera		
Temperature	Working Temperature	0。 C to 40。 C		
	Storage Temperature	-20。 C to 60。 C		

MF805

CAT6 LTE MiFi

Key Features

- 3GPP Release 12

- UE Category 6

- LTE & WCDMA

- 802.11 b/g/n/ac, 2x2 MIMO

- WiFi AC1200

- USB2.0

- MicroSD Up to 64GB

- Battery Capacity 3000mAh

- LTE Chipset: Qualcomm SDX12

- WiFi Chipset: Qualcomm QCA6174

Size:99.4x66x18.3mm

Specification

Dimensions	99.4*66*18.3mm		
Weight	118g(include battery)		
Form	MiFi / Pocket Router		
WAN	Chipset	Qualcomm SDX12	
	Frequency Bands	LTE	B1/3/5/28/40/41
		CA	1A_3A,1A_5A,3A_3A,3B,3C,3A_5A,38A_38A,38C,41A_41A, 41C
		UMTS	B1/5
	RF Power Level	LTE	Power Class 3 (24 +1.7/-3.7dBm)
		UMTS	Power Class 3 (24 +1.7/-3.7dBm)
	Antenna	4 Internal Antenna port;2x2 DL MIMO;2R1T	
	Data Rate	4G	3GPP LTE UE Cat 6, Downlink/Uplink up to 300Mbps/50Mbps
		3G	3GPP Downlink/Uplink up to 42Mbps/5.76Mbps
WLAN	Chipset	Qualcomm QCA6174	
	Wi-Fi	Frequency	2.4GHz, 5.8GHz
		Protocol	802.11b/g/n/ac
		Clients	Up to 10 WiFi users/devices
		Antenna	Internal, 2 x 2 MIMO
	Data Rate	802.11b	Up to 11 Mbps
		802.11g	Up to 54 Mbps
		802.11n	Up to 300 Mbps
		802.11ac	Up to 867 Mbps
Power Supply	USB, 5V1A	(Optional)	
Battery	Type	Li-ion Polymer Battery	
	Capacity	3000mAh	
	Endurance	7-9 hours (normal network situation)	
Interface	USB	USB2.0	
	USIM	Single, 3FF	
	MicroSD	Up to 64GB	
LED	Power	Power/Battery Status Indicator (2 Colors)	
	Network	4G/3G Network Status Indicator	
	Wi-Fi	Wi-Fi Status Indicator	
	Message	New SMS Indicator	

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Your reliable partner to brighten the future network