

A500Q

AX5400 5G CPE



Overview

A500Q is a 5G & Wi-Fi 6 desktop CPE specially designed for SME and smart home cases. It adopts a simple, integrated and fashionable design with 10 built-in antennas. With simple appearance and powerful performance, it can plug and play to provide a high-speed network access point in SME or families.

Highlights



Qualcomm Solution

- Qualcomm X62, 3GPP Rel-16 5G NSA&SA SUB6 support
- 5G platform with advanced 4nm process



Wi-Fi 6

- 4*4 MIMO omnidirectional high-gain Wi-Fi antenna, support up to 128 users
- Wi-Fi 6 AX5400 specification, 200% speed increase compared to previous generation Support
- OFDMA, TWT, BSS coloring Wi-Fi 6 technologies to ensure high-speed access



Better Signal

- Up to 10 built-in antennas for 5G & Wi-Fi 6
- 4 built-in 5G and 6 built-in Wi-Fi 6 antennas ensure MIMO concurrent speed
- 3D stereo stacking design antenna ensures minimal interference and optimal reception

Topology diagram



Smart home



SME



Video conference



Network sharing

Features



5G

Qualcomm X62 5G module, high downlink speed up to 4.4Gbps
Bandwidth up to 160MHz



Wi-Fi 6

Support up to 128 users
Wi-Fi 6 AX5400 specification



High performance interfaces

1×GigE LAN, 1 ×2.5GigE WAN/LAN
Support VoLTE/ VoNR



Safety

Support port filtering and security firewall
Support VPN

Specification

HARDWARE

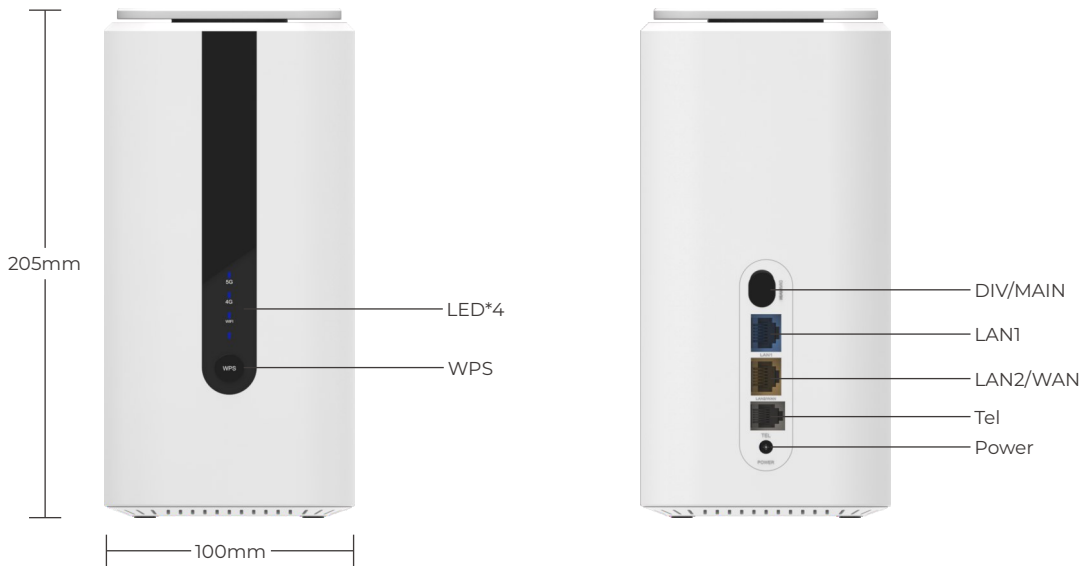
Model	A500Q		
LED indicator	Power, Wi-Fi, 4G, 5G	SIM card	4FF SIM (Nano SIM)
VOLTE	RJ11*1	KEY	RESET, Power, WPS
Built-in antenna	4G/5G antenna*4, Wi-Fi antenna(MU MIMO)*6		
Ethernet	1*10/100/1000Mbps LAN, 1*10/100/1000/2500Mbps LAN/WAN		
Operating voltage	+12VDC/3A	Weight	About 800g
Size	100mm*100mm* 205mm	Operating temperature	-10°C+45°C
Relative humidity	≤95%	Storage temperature	-30°C+75°C

NETWORK

Cellular*	5G NSA Sub-6	3.2Gbps (DL)/600 Mbps (UL)
	5G SA Sub-6	2.4Gbps (DL)/900 Mbps (UL)
	LTE	1.6 Gbps (DL)/200 Mbps (UL)
	WCDMA	42 Mbps (DL)/5.76 Mbps (UL)
Wi-Fi 6*	2.4GHz	802.11 a/b/g/n/ac/ax, 2*2 MIMO, 576Mbps
	5.8GHz	802.11 a/b/g/n/ac/ax, 4*4 MIMO, 4804Mbps
	Max user	128

*Theoretical peak value, the actual rate is related to the test environment

Appearance



Ordering info

Model	5G modem	MIMO	WLAN	RJ45	Region
A500Q-EA	5G NR: 3GPP Release 16 NSA/SA operation, Sub-6 GHz 5G NSA & SA: n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n75/n76/n77/n78 4G LTE-FDD: B1/B3/B5/B7/B8/B20/B28/B32 4G LTE-TDD: B38/B40/B41/B42/B43 3G WCDMA: B1/B5/B8	5G DL 4×4 MIMO on: n1/n3/n7/n38/n40/n41/n75/n76/n77/n78 LTE DL 4 × 4 MIMO on: B1/B3/B7/B38/B40/B41/B42/B43	Wi-Fi 6 2.4GHz & 5GHz, AX5400	1×10/100/1000bps LAN; 1×10/100/1000/2500Mbps LAN/WAN	EMEA/Oceania/Brazil
A500Q-NA	5G NR: 3GPP Release 16 NSA/SA operation, Sub-6 GHz 5G NSA & SA: n2/n5/n7/n12/n13/n14/n25/n26/n29/n30/n38/n41/n48/n66 4G LTE-FDD: B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/ B29/B30/B66/B71 4G LTE-TDD: B38/B40/B41/B42/B43	5G DL 4×4 MIMO on: n2/n7/n25/n30/n38/n41/n48/n66/n70/n77/n78 LTE DL 4 × 4 MIMO on: B2/B4/B25/B30/B41/B42/B43/B48/B66	Wi-Fi 6 2.4GHz & 5GHz, AX5400	1×10/100/1000bps LAN; 1×10/100/1000/2500Mbps LAN/WAN	North America

Packing list

 A500Q 5G CPE	 1×Power Adapter	 1×Network Cable
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