W56CA 5G & WiFi6 AX3000 Mobile CPE Specs

Size: 215.84mm(Long) x 108.0mm(Wide) x 108.0mm(Thic

Product features

Chipset	**MT7981BA+MT7976CN+MT7531AE**
Storage	256MB DDR3 + 128MB SPI NAND FLASH
Cellular network mode	**5G:NR NSA**
	5G:NR SA
	4G：LTE-TDD，LTE-FDD
Carriers	**Verizon / AT&T / T-Mobile / Dish (EchoStar)**
5G/4G module	**Qualcomm X62 (or X75)**
	NR 5G SA：n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n38, n40, n41, n48, n66, n70, n71, n75, n76, n77, n78, n79
	NR 5G NSA：n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n38, n40, n41, n48, n66, n70, n71, n75, n76, n77, n78, n79
	LTE-FDD：B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B66, B71
	LTE-TDD：B34, B38, B39, B40, B41, B42, B43, B48
	LAA：B46
WiFi protocol standards	IEEE 802.11b、IEEE 802.11g、IEEE 802.11a、IEEE 802.11n、IEEE 802.11ac、IEEE 802.11ax、IEEE 802.3、IEEE 802.3u、IEEE 802.3x
Interface	1 x 10/100M/1000M WAN port, supporting Auto MDI/MDIX
	2 x 10/100M/1000M LAN ports, support Auto MDI/MDIX
	1* nano SIM slot (Hot plug), 1* eSIM
Button	Power(power on/off)
	Reset (press and hold for 5 seconds)
LED	5G, 4G, WIFI signal indicator, internet indicator
Antenna	**5dBi gain non-detachable antenna**
Number of antennas	**4* 5G NR and 4G LTE antennas, 5* AP antennas**
Power supply	**Type-C 5V/3A**
	20000mAh battery
	USB 2.0, 5V/2A power output

Wireless functions

Basic functions	Wireless on/off SSID Broadcast Enable/Off Channel selection: 1 ~ 13 (2.4G), 36 ~ 165 (5GHz) 2.4G bandwidth: 20MHz, 40MHz 5G bandwidth: 20MHz, 40MHz, 80MHz, 160MHz
WiFi 2.4G frequency	2412~2472MHz
WiFi 5G frequency	5180~5825MHz
WiFi Max Rate	**3000Mbps (2.4G 2*2 MIMO up to 574Mbps, 5G 2*2 MIMO up to 2402Mbps)**
WiFi Max Access	**128 Users**
Power	2.4G Actual Power: 802.11b 22±1.5dBm 802.11g 21±1.5dBm 802.11n20 19±1.5dBm 802.11n40 19±1.5dBm 802.11ac40 17.5±1.5dBm 802.11ax40 17.5±1.5dBm 5G Actual Power: 802.11a 19±1.5dBm 802.11n20 18.5±1.5dBm 802.11n40 18.5±1.5dBm 802.11ac80 17.5±1.5dBm 802.11ax80 16.5±1.5dBm
Cellular Data Rate (Max.)	**5G SA Sub-6: DL 2.4 Gbps; UL 900 Mbps** **5G NSA Sub-6: DL 3.4 Gbps; UL 550 Mbps** **LTE: DL 1.6 Gbps; UL 200 Mbps** **WCDMA: DL 42 Mbps; UL 5.76 Mbps**
Working mode	AP Router Repeater
Wireless security	Wireless MAC address filtering 64/128 bit WEP encryption WPA-PSK、WPA2-PSK、WPA3-SAE、WPA/WPA2-PSK 、WPA2-PSK/WPA3-SAE WPS（PBC）
Other features	Wireless host status display Wireless site scanning Seamless roaming between nodes Seamless roaming between bands
WiFi settings	WiFi basic settings (dual-band integration, switch, wireless mode, SSID, PWD, encryption algorithm, channel, bandwidth, power adjustment). Advanced settings (wireless client isolation, 802.11h, WMM multimedia acceleration). Multiple SSIDs (SSIDs, encryption methods, PWDs, and encryption algorithms)

Software functions

Network status	Register network information: Click to directly configure APN dialing information Network Scan Information: Click each to scan the network signal quality of the current location and provide optimal location detection System status view: device information (power-on duration, system time, software version, hardware version), 4/5G dial-up information, LAN status, WIFI information, IPv6 information, and Mesh node information Mesh node information: Mesh networking node information and Mesh networking tutorial tips Client information: You can directly pull a client into the blacklist Wifi information: You can directly jump to configure WiFi information

	Real-time Internet access rate display, WAN IP address display, software version information
Network settings	Data Switch, Roaming Switch, Mode Selection, Default APN Information, and APN Manual Configuration FAILOVER switches: PPPOE, DHCP, and static 4G/5G band locking
Wifi settings	Wifi name and password, wifi timing, channel bandwidth setting, power regulation, bridging function, OFDMA
SMS feature	SMS sending and receiving, SMS center settings
Guest network	Configure the SSID, rate limit, and startup time limit of the guest network
Parental controls	Online device display, online time, restricted Internet time period, URL filtering configuration
Advanced settings	Working Mode, SIM PIN, Mobile Data Switch, Bandwidth Control, Sleep Mode, LED Control, Filter MAC Address, Firewall, Static Routing, DDNS, Virtual Server, DMZ Host, UPnP, TR069 Settings
System settings	System Status, Time Setting, Password Management, Configuration Management, Firmware Upgrade, Scheduled Restart, System Log, LAN Setting, DHCP Binding, Reboot & Reset, Remote Management

Other

Environment	Operating temperature: -20°C to 50°C Storage temperature: -40°C to 70°C Operating humidity: 10% to 90% RH non-condensing Storage humidity: 5% to 95% RH non-condensing
Dimensions	215.8*108*108mm