

HZ51

5G CPE



OVERVIEW

The HZ51 is a 5G & Wi-Fi 6 desktop CPE designed for SME and smart home connections. The sleek and fashionable design boasts raw power under the hood, a must have addition to an integrated environment. A dozen antennas are pumping signal under the unassuming aesthetic, radiating enough power to connect every corner of your space. With mission critical reliability and continuous performance, the HZ51 includes full 5G features such as Gigabit download and upload speeds, Gigabit Ethernet, and up to 4800Mbps total throughput on Wi-Fi 6. This feature rich HZ51 also supports VoLTE and can be an incredibly versatile access point for voice and data in a home, small office, or open space. We are Horizon powered, let's connect.

FEATURES

Qualcomm Solution



- Qualcomm X62, 3GPP Rel-16 5G NSA&SA SUB6 support
- 2.5Gbps WAN/LAN, 5400Mbps Wi-Fi6, Triple 1000Mbps network access

Wi-Fi6



- 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

SPECIFICATION

HARDWARE

Model	HZ51	Version	HZ51-EU/HZ51-NA
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	105mm*112mm*206mm	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)	No Support
Wi-Fi *	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

FREQUENCY BANDS	EMEA/Oceania/Brazil	North America
5G	3GPP Rel-16 NSA/SA operation, Sub-6 GHz	
5G NR		
5G NR NSA	n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n76/n77/n78	n2/n5/n7/n12/n13/n14/n25/n26/n29/n30/n38/n41/n48/n66/n70/n71/n77/n78
5G NR SA	n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n76/n77/n78	n2/n5/n7/n12/n13/n14/n25/n26/n29/n30/n38/n41/n48/n66/n70/n71/n77/n78
MIMO	DL 4 × 4 MIMO on: n1/n3/n7/n38/n40/n41/n76/n77/n78	DL 4 × 4 MIMO on: n2/n7/n25/n30/n38/n41/n48/n66/n70/n77/n7
LTE	DL Cat 19/ UL Cat 18	
LTE Category		
LTE-FDD	B1/B3/B5/B7/B8/B20/B28	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
UMTS	WCDMA	No support
	B1/B5/B8	

*Note: Communication power consumption is affected by network signal strength and module network mode.

APPEARANCE



Home user connectivity

Small office and business setup

Retail Outlet

Warehouse

Hospital / Clinics / Hotels

College Campuses & Higher Education

HZ51
5G Wi-Fi 6 Indoor Router

5G & 3GPP LTE
5G SA/NSA Sub-6
CAT 19

Wi-Fi 6
4*4 MIMO omnidirectional high-gain Wi-Fi antenna

Better Signal
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