

Product specification

A02

5G Indoor CPE – WiFi6

Version 1.0

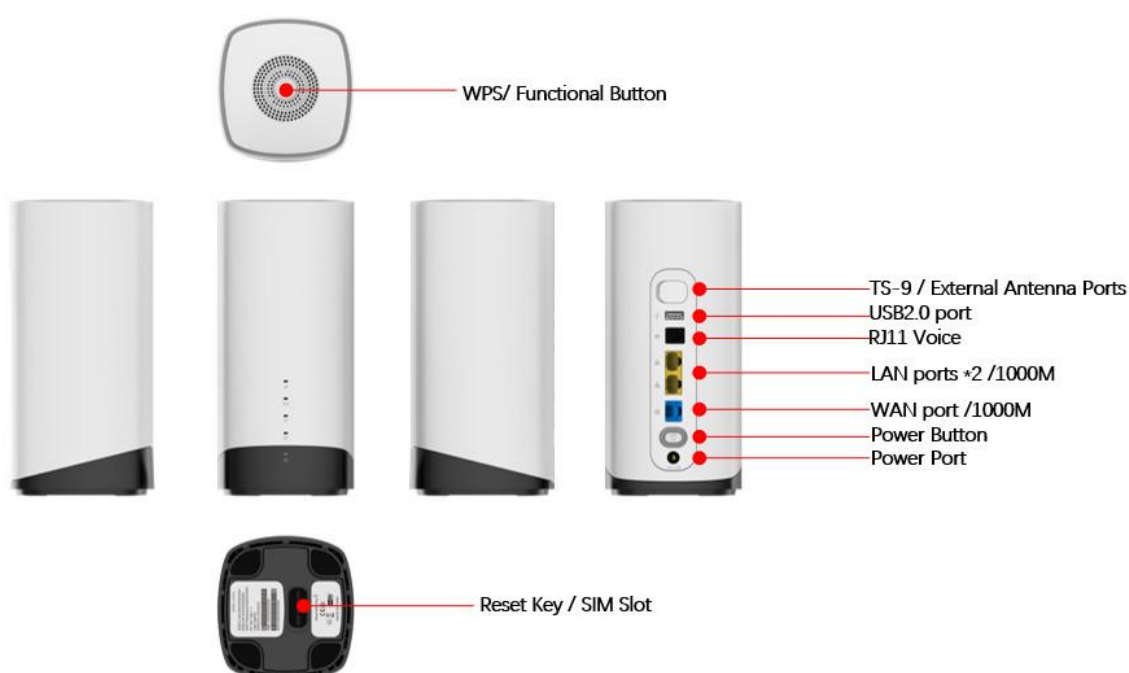
Date: 2020/11/26

■1. Revision

Date	Version	Editor	Note
2020/11/26	1.0	Ray	First release

■2. Hardware specification

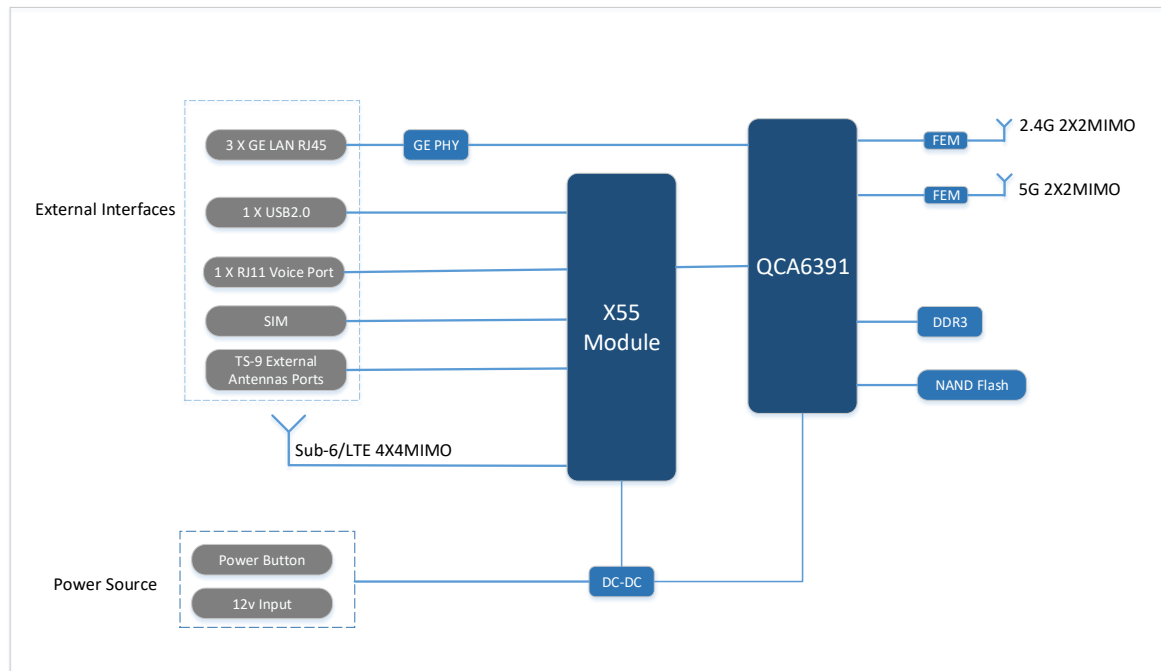
■2.1. Interface



Power button	Press and Release→ Power on/off
Power Source	DC 12V/2A
Functional button	Press and start enabling WPS feature
LAN port	2 x 1GE LAN Ports (RJ45)
	1 x 1GE WAN port (RJ45)
USB port	USB 2.0 high speed for external Disk
External Antenna	1 x TS-9 connector for Tx
	1 x Tx-9 connector for Rx
Tel	1 x RJ11 port for Tel

LED display	- Signal strength indicator - 5G network status - Wi-Fi Status - LAN Port status - Mode to indicate Power status or FOTA status
Card slot	One 3FF (Micro) UICC/USIM card slot
Reset button	One reset button hole (Hidden beside SIM slot)

■2.2. Block Diagram



■2.3. RF functions

Cellular	5G/LTE	Qualcomm Snapdragon X55 7nm
		Standard compliant: 3GPP Release 15(both LTE and 5G)
		Supported:
		NR Sub-6: n1/n3/n5/n8/n20/n28/n38/n40/n41/n77/n78/n79 LTE: B1/2/3/4/5/7/8/20/28a/28b/34/38/39/40/41/42/43/48 NSA: EN-DC: 1C+NR, 2CC+NR, 3CC+NR SA: n1/n3/n7/n28/n41/n77/n78/n79

		LTE CA: 2CC, 3CC Support soon: EN-DC: 4CC+NR, 5CC+NR LTE CA: 4CC, 5CC
		Modulation: Native support for 5G mmWave and sub-6 GHZ Sub-6 UL: 256QAM, DL: 256QAM LTE DL:1024QAM, UL:256QAM 5G RF: Adaptive antenna tuning, 100 MHz envelope tracking
		MIMO: 5G mmWave specs: 800 MHz bandwidth, 8 carriers, 2x2 MIMO 5G sub-6 GHz specs: 200 MHz bandwidth, 4x4 MIMO Sub-6 DL: 4x4, UL:2x2 LTE DL:4X4, UL:1X1
		Antenna(both LTE and 5G):7 internal antennas
		Peak data rate: Sub-6 DL: 7.5Gbps, UL:3Gbps 4G LTE DL 2.5Gbps, UL: 316Mbps Downlink LTE Streams: 24 LTE streams LTE Cat22
	WCDMA	Standard compliant: DC-HSDPA / HSPA+ compliant Supported frequency: - HSPA+/UMTS band 1/3/8 (3G) Data rate - Downlink data rate up to 42 Mbps - Uplink data rate up to 5.76 Mbps
	Output power class: 22 +/-1 dBm (class 3)	
Wi-Fi	QCA6391	
	Standard compliant: IEEE 802.11 a/b/g/n/ac/11ax	
	2.4 GHz (2x2 MIMO 591Mbps) +5.8G band (2x2 MIMO 1238Mbps)	
	AX1800	

■2.4. Environment

Temperature	Operating: 0°C to 40°C
	Storage: -20°C to 60°C
Humidity	Operating Humidity: 5 to 95% RH
	Storage Humidity: 5 to 95% RH
	Non-condensing

■2.5. Physical specification

Packaging Items	Casing Dimension (WxDxH): 95*100*205mm
	Weight: ~830g
Packaging Accessories	DC 12V/2A Power adaptor

■3. Software specification

■3.1. Features

System Features	Web UI/Multiple language supported
	SMS/Quota/APN/PIN Management
	Network Selection
	Data Usage / Statistic
	DHCP Server
	NAT
	IP Firewall
	Proxy DNS
	Parental control - Parental controls designed to allow control of Internet access on all devices connected to your home network.
	Self-Check - Self-examination when it can't connect to the network
	Port Settings - Port forwarding, including single port, multiple ports or a range of ports
	Security - SIM Lock and Secure boot features.
	Firewall - DMZ/MAC Filter/IP Filter/URL Filter/Port Filter
	Port Settings
Wi-Fi AP Features	802.11 a/b/g/n/ac/ax/ 2.4GHz+5.8GHz

	MU-MIMO
	Band Steering
	Auto Channel Select (ACS)
	Hidden SSID
	Security Modes : WPA/WPA2 PSK, & WPA/WPA2 mixed mode
	Access Control : STA blacklist/white list
	WPS : Pin and PBC, WPS2.0

■4. Mechanical & ID designs

■4.1. Dimension

Casing Dimension (WxDxH): 95*100*205mm

■4.2. ID designs



■5. Package

■5.1. Accessories

Adapter	12V/2A adapter
	EU: EU/UK/US plug (M type)
	White color
QSG	Quick start guide

Safety warning	Safety warning
DoC	Declaration of Conformity

■5.2. Packing

Box	Box label
	Inner paper
	Inner box
	Color box