

# XTC6251

## 5G Indoor CPE



### Highlights:

-   
 Qualcomm X62
-   
 3GPP Release 16
-   
 802.11AX protocol
-   
 IPv6 Stack
-   
 Firewall

### Introduction:

5G/4G/Wired Broadband Internet, more stable and faster. 5G/4G Global Communication, support 5G/4G/3G and WiFi 6, is stable and does not drop the line, can support 4K video playback without jamming.

### Interface of XTC6251:



# Technical Specifications

## Product Feature

Dimension	112*110*224mm
Net Weight	About 730g
Working Temp	-10 to 55° C
Storing Temp	-40 to 70° C
Humidity	5% to 90%
AC adapter	12V/2A
Buttons	Power, Reset, WPS

## 5G/4G/3G WAN Feature

3GPP release	Release 16
5G Frequency Bands and Data Rates	Sub-6 NSA: n1/2/3/5/7/8/12/13/14/18/20/25/26/28/29/30/38/40/41/48/66/70/71/75/76/77/78/79 Sub-6 SA: n1/2/3/5/7/8/12/13/14/18/20/25/26/28/29/30/38/40/41/48/66/70/71/75/76/77/78/79 5G NSA: 3.4 Gbps (DL)/550 Mbps (UL) 5G SA: 2.4 Gbps (DL)/900 Mbps (UL)
4G Frequency Bands and Data Rates	LTE:B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/30/32/34/38/39/40/41/42/43/46(LAA)/48/66/71 1.6 Gbps (DL)/200 Mbps (UL)
3G Frequency Bands and Data Rates	UMTS/WCDMA: B1/2/4/5/8/19 DC-HSDPA:42 Mbps (DL) HSUPA:5.76 Mbps (UL) WCDMA:384 kbps (DL)/384 kbps (UL)

## WLAN Feature

Frequency Range	2.4G:2.412~2.4835GHz 5.8G:5.150GHz~5.250GHz,5.7250GHz~5.8250GHz
Wireless rate	11b: 1/2/5.5/11Mbps 11g: 6/9/12/18/24/36/48/54Mbps 11n: Max 600Mbps 11ac: Max1200Mbps 11ax: Max1800Mbps
Working channel	2.4G: 1~13 5.8G: 36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140,149,153,157,161,165
Spread Spectrum Technology	DSSS
Data modulation method	802.11a: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11b: DSSS (DQPSK, DBPSK, CCK) 802.11g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM) 802.11ax: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM)
Medium Access Protocol	CSMA/CA with ACK

## WLAN Feature

Data Encryption	WPA-PSK/WPA2-PSK, WPA3-SAE, WPA3-SAE/WPA2-PSK2
Power	2.4G: 11b:20dBm±2dBm@11Mbps 11g:20dBm±2dBm@6Mbps,17dBm±2dBm@54Mbps 11n:20dBm±2dBm@6Mbps,17dBm±2dBm@54Mbps 11ax:20dBm±2dBm@6Mbps,17dBm±2dBm@54Mbps 5.8G: 11ac(VHT80):18dBm±2dBm@MCS0,15dBm±2dBm@MCS9 11ax(VHT80):18dBm±2dBm@MCS0,15dBm±2dBm@MCS11
Receiving sensitivity	2.4G: 11g: <-82dbm@ 6Mbps, <-65dbm@ 54Mbps 11n (HT20): ≤ -62dBm@MCS7 11n (HT40): ≤ -61dBm@MCS7 11ax (HT40): ≤ -79dBm@MCS0, ≤ -49dBm@MCS11 5.8G: 11ac (VHT80): ≤ -76dBm@MCS0, ≤ -51dBm@MCS9 11ax (VHT80): ≤ -76dBm@MCS0, ≤ -46dBm@MCS11
Heat Spreading	2 sheets Heat Spreading Covering the PCBA main chipset

## Function Data

SIM slot	Support SIM (4FF nano)
Memory	RAM(DDR3):256MBytes,Flash(SPI):32MBytes
Interface	1×10/100/1000Mbps WAN Port, 2×10/100/1000Mbps LAN Port, 1×USB 2.0 Port,1×NANO USIM card Port,1×DC power Port
5G antenna	Built-in high-performance full frequency antenna, 2T4R, Antenna gain 4dBi
WiFi Antenna	Built-in high-performance Wi-Fi antenna 2.4G: 2T2R, 5G: 2T2R, Antenna gain 4dBi
Indicator light	Power indicator (blue), WiFi indicator (blue and green), 5G networking indicator (tricolor), 4G networking indicator (tricolor)
Language	Chinese/English
IP protocols	IPv4/IPv6
Practical Function	Setup wizard, SMS send and receive, NAT
Network Settings	WAN connection types supported: PPPoE, DHCP, Static IP, PPTP, L2TP, APN, IPv6, DHCP, Visitors to the network, Parental control
Management	TR069/FOTA, Device Information, NTP, Cell Lock, PIN management, Firmware Backup/Restore, Flow statistics, Change password, etc
Security Settings	Firewall
Wireless	Black and white list, WIFI Settings, Mesh configuration, WPS
Network tool	PING, Tracert, Nslookup