

ZLT X22

5G Indoor CPE

3GPP Release 15

5G NR

Multi LTE Bands

802.11 b/g/n/ac/ax

WIFI 4/5/6

VoNR/VoLTE/VoIP



X22 is a highly advanced 5G indoor multi-service product solution specifically designed to meet integrated data, and 802.11b/g/n/ac/ax(802.11ax also known as WIFI 6) dual bands Wi-Fi access, which supports 573+1201Mbps rate, needs for residential, business and enterprise users. The product supports advanced Gigabit networking and dual bands Wi-Fi AP functionalities. It enables wide service coverage and provides high data throughput and networking features to customers who needs easy broadband access, hot-spot Wi-Fi connectivity.

Hardware Specifications

Spec	Description
Chipset	5G/LTE: UNISOC IVY510, dual-core ARM Cortex-A55 processor, up to 1.35GHz
	Wi-Fi: MT7905 + MT7975 ECONET: EN7565GT
RF standard	5G NR (3GPP Release 15) TDD-LTE/FDD-LTE
Memory	ROM: 2Gb
	RAM: 4Gb DDR3
Indicators	1. Power 2. Wi-Fi Status 3. 4G Internet 4. 5G Internet 5. Signal Bar Indicator
Buttons	1. WPS Button 2. Reset Key
Interfaces	1. GE LAN Port * 4 2. RJ11 Port * 1(In Roadmap) 3. SIM Slot * 1 (4FF) 4. DC Socket 5. TYPE-C USB3.0 for Manufacture
LAN/WAN	GE Port * 4, (Currently DHCP/STATIC mode).
Power Supply	AC100V~240V,50Hz~60Hz DC 12V DC±10% 2A
Power Consumption	< 24W
Dimensions	120mm*120mm*179mm
Weight	680g

Environment Specifications

Feature	Capability
Operating Temperature	-10°C--45°C
Storage Temperature	-40°C--70°C
Operating humidity	95% Maxton-condensing
Storage humidity	95% Maxton-condensing

RF Specifications

Feature	Capability
Support Bands	5G NR: N1/N3/N8/N28/N41/N77/N78/N79
	4G FDD: B1/B2/B3/B5/B7/B8/B20/B28A/ B28B, B32 can be customized;
	4G TDD: B34/B38/B39/B40/B41
ENDC	B3/B7/B8/B20-N1 B1/B20-N3 B1/B7-N8 B1/B3-N28 B3/B39-N41 B1/B3-N77 B1/B3/B5/B7/B8/B20/B28-N78 B3/B39/B40-N79
LTE 3CC	CA Combination tested (CA Maximum Aggregated Bandwidth, MHz) B40+B40+B40(50) B41+B41+B41(60) B39+B39+B41(50) B39+B41+B41(60) B3+B41+B41(50) B8+B41+B41(50) B3+B3+B8(50) B1+B3+B5/B7/B8(50) CA Combination under testing (CA Maximum Aggregated Bandwidth, MHz) B1+B3+B3/ B20/B28(50) B1+B3+B7/B32(60) B1+B7+B8/B20(50) B1+B8+B20(45) B1+B20+B32(50) B3+B3+B7(50) B3+B3+B20(40) B3+B7+B20/B28(50) B3+B7+B7(60) B3+B8+B20(45) B3+B20+B32(50) B7+B7+B20(50)
LTE 2CC (Inter/Intra 2CA)	2CC DL intra-band contiguous: 1C, 3C, 38C, 39C, 40C, 41C 2CC DL inter-band: 1A-3A, 1A-5A, 1A-8A, 3A-5A, 3A-7A, 3A-8A, 39A-41A, 3A-41A, 5A-7A, 8A-41A,8A-39A 2CC UL intra-band contiguous: 1C, 3C, 38C, 39C, 40C, 41C
DSS Bands	N1/N3/N8/N28
NR CA	Not Support (In Roadmap, will be supported by new hardware)

MIMO	5G DL MIMO 4*4, UL MIMO 2*2 LTE: MIMO 2*2 WIFI: MIMO 2*2(5G) MIMO 2*2(2.4G)
5G/4G TX/RX	2T4R/1T2R
Output Power@25℃	5G NR: 23+-2dBm LTE: 23+-2dBm
5G/4G Antenna	5 Built-in 5G antennas 2 Built-in 4G antennas
5G/4G Antenna Gain	5 dB
Wi-Fi Frequency	2.4GHz/5GHz
Wi-Fi Antenna	2 Built-in 2.4G Wi-Fi antennas 2 Built-in 5G Wi-Fi antennas
Wi-Fi Output Power	16 dBm/2.4G; 18 dBm/5G;
Wi-Fi Channel BW	20MHz,40MHz,80MHz(ac)
Wi-Fi Antenna Gain	4 dB
Peak Throughput	5G NR: 1Gbps (UL), 2Gbps (DL)

If the NR/LTE antenna supports all frequency, the antenna gain will be lower than the value in table

Topology



Software Specifications

Spec	Description
Language	English
	Simple Chinese
	Could be customized
Https/Http	Both

User Login	Support two users (Operator and User) with different limitation and display
Network Status	Signal strength
	Network type(5G/4G)
	SIM card status
	Wi-Fi Status
System Status	LAN Status
	Mobile parameters, APN/DHCP/Wi-Fi information, Memory details, Version/Device information
Internet Settings	Network mode setup, Data switch, Roaming setup, Fly mode setup
APN Setup	APN name, Nat Switch on APN bear, PDP(IPV4/IPV6/IPV4V6), MTU size
SIM Card	PIN Management
	SIM card Authentication
DHCP Setup	Enable/Disable DHCP server Configure DHCP IP Pool Configure DHCP Lease Time
Static Route	Route Setup on WAN/LAN interface
DDNS	In Roadmap
Band Lock	Support
PCI Lock	Support
Cell Lock	In Roadmap
Carrier SIM Lock	Support
VPN	VPN Passthrough
Backup/restore	Encryption backup current settings and restore the backup settings (Export/Import Configuration)
Voice (In Roadmap)	Support VoNR/VoLTE or VOIP
Work Mode	NAT/ Router mode

Device Management

Spec	Description
Software Update	WebUI update TR069 update
TR069	HTTP/HTTPS Upload / Download the ACS specified file Download CPE configuration file Configure & Query parameters Remote upgrade Cycle monitor
Diagnostics	Ping/Trace/Tcpdump
	Export current diagnosis results and operation logs

Firewall Features

Functions
DMZ
Port Mapping
Port Filter
IP-Port Filter
MAC Filter
URL Filter
IP MAC Binding
ACL Firewall

WIFI Features

Functions
Support Wi-Fi Switch turn on/off,
Support Wi-Fi SSID/KEY setup
Support Encryption: OPEN, WPA2-PSK, WPA/WPA2-PSK, WPA3-PSK, WPA2/WPA3-PSK
Support SSID broadcasting
Support Wi-Fi protocol IEEE 802.11 b/g/n/ac/ax
Maximum Speed 2.4G: Up to 573.5Mbps 5G: Up to 1201Mbps
Support Wi-Fi channel self-adapt and select
Support Wi-Fi maximum users 2.4G Wi-Fi: 32 5G Wi-Fi: 32
Support multi SSID and guest SSID
Support WPS: Support WPS PIN/WPS PBC
Support Wi-Fi bandwidth setup