

Yeacomm X21 5G indoor CPE specification



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Overview

3GPP Release 15
5G NR
Multi LTE Bands
802.11 b/g/n/ac
VoNR/VoLTE/VoIP



X21 is a highly advanced 5G indoor multi-service product solution specifically designed to meet integrated data, and 802.11b/g/n/ac dual bands Wi-Fi access 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: Realtek 8198D
RF standard	5G NR (3GPP Release 15) TDD-LTE/FDD-LTE
Memory	ROM: 2Gb
	RAM: 4Gb DDR3
Indicators	<ol style="list-style-type: none"> Power Wi-Fi Switch Status 4G Internet 5G Internet Signal Bar Indicator
Buttons	<ol style="list-style-type: none"> Power ON/OFF Button WPS Button Reset Key
Interfaces	<ol style="list-style-type: none"> GE LAN Port * 4 RJ11 Port * 1(In Roadmap) SIM Slot * 1 (3FF) DC Socket TYPE_C USB3.1 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	117mm*117mm*180mm
Weight	580g

Environment Specifications

Feature	Capability
Operating Temperature	0 C~40 C
Storage Temperature	-20 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
3CC	CA Combination (CA Maximum Aggregated Bandwidth, MHz) B40+B40+B40(50) B41+B41+B41(60) B39+B39+B41(50) B39+B41+B41(60) B1+B3+B3/B5/B8/B20/B28(50) B1+B3+B7/B32(60) B1+B7+B8/B20(50) B1+B8+B20(45) B1+B20+B32(50) B3+B3+B7/B8(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)
CA (Inter/Intra 2CA)	2CC DL intra-band contiguous: 38C, 39C, 40C, 41C, 3C 2CC DL inter-band: 39A-41A, 41A-39A, 3A-41A, 8A-41A, 1A-3A, 3A-1A 2CC UL intra-band contiguous: 38C, 39C, 40C, 41C, 3C
MIMO	5G DL MIMO 4*4, UL MIMO 1*1 LTE: MIMO 2*2 WIFI: MIMO 2*2(5G) MIMO 2*2(2.4G)
5G/4G TX/RX	2T4R/1T2R
Output Power@25°C	5G NR: 23+-2dBm LTE: 23+-2dBm
5G/4G Antenna	4 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 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 (admin user and normal user) and different limitation and display
Network Status	Signal strength
	Network type(5G/4G..)
	SIM card status
	Wi-Fi Status
	LAN Status
System Status	Mobile parameters, APN/DHCP/Wi-Fi information, Memory details, Version/Device information

Internet Settings	Network mode setup, Data switch, Roaming setup
APN Setup	APN name, Nat Switch on APN bear, PDP(IPV4/IPV6/IPV4V6), MTU size
	Multi APN (Totally 3 APNs)
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	Support
Band Lock	Support
PCI Lock	Support
Cell Lock	Support
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 Supports upload / download the ACS specified file Support download CPE configuration file Support configure & queries parameters Support remote upgrade Support cycle monitor
	Ping/Trace/Tcpdump
	Export current diagnosis results and operation logs
Diagnostics	

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, IEEE 802.11 ac
Support Wi-Fi bandwidth setup
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

Firewall Features

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