

Overview

The 5G CPE M131 is a high-performance 5G indoor wireless router based on Unisoc IVY510 modem, which supports 5G NR (SA&NSA), TDD-LTE and FDD-LTE. It converts cellular network data into WIFI and wired network port data, supporting 4 Gigabit LAN ports, 2.4GHz & 5GHz dual-band WIFI. It is suitable for home or commercial scenarios that require rapid deployment of WIFI hotspots and wired broadband networks.



Application



■ Specification

● Hardware Specification

Item	Description
Chipset	5G/LTE: UNISOC IVY510, dual-core ARM Cortex-A55 processor, up to 1.35GHz
	Wi-Fi: Realtek 8198D
RF standard	5G NR SA&NSA (3GPP Release 15) TDD-LTE/FDD-LTE (CAT 12)
Memory	ROM: 2Gb
	RAM: 4Gb DDR3
Indicators	1. Power 2. Wi-Fi Switch Status 3. 4G Signal Indicator 4. 5G Signal Indicator 5. Signal Quality Indicator
Buttons	1. Power ON/OFF 2. WPS Button 3. Reset Key
Interfaces	1. GE LAN Port * 4 2. RJ11 Port * 1(In Roadmap) 3. SIM Slot * 1 (3FF) 4. DC Socket 5. TYPE_C USB3.0 for Manufacture
LAN	GE Port*4
Power Supply	AC100V~240V,50Hz~60Hz DC 12V DC±10% 2A
Power Consumption	< 24W
Dimensions	117mm*117mm*180mm
Weight	580g

● RF Specification

Item	Parameters
Frequency 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
DSS Bands	FDD NR N1/N3/N8/N28
NR CA	Not Support (In Roadmap, will be supported by new hardware)
ENDC	B3/B7/B8/B20-N1 B1/B20-N3 B1/B7-N8 B1/B3-N28 B1/B3/B39-N41 B1/B3-N77 B1/B3/B5/B7/B8/B20/B28/B40-N78 B3/B8/B39/B40-N79

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)
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 2*2 LTE: MIMO 2*2 WIFI: MIMO2*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)
TDD NR HPUE	Supported

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

● Software Functions

Item	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 bearer, 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	Supported
Band Lock	Supported
PCI Lock	Supported
Cell Lock	Supported
Carrier SIM Lock	Supported
VPN	VPN Passthrough
Backup/restore	Encryption backup of current settings and restore the backup settings (export/import configuration)
Voice (In Roadmap)	Supports VoNR/VoLTE or VOIP
Work Mode	NAT/ Router mode

● Environment

Item	Parameters
Operating Temperature	0°C~40°C
Storge Temperature	-20°C~70°C
Operating humidity	95% Maxton-condensing
Storage humidity	95% Maxton-condensing

● Device Management

Item	Description
Software Update	WebUI update TR069 update
TR069	HTTP/HTTPS, Supports uploading / downloading of the ACS specified file, Supports downloading CPE configuration file, Supports configuration and query of parameters, Supports remote upgrades Supports cycle monitor
Diagnostics	Ping/Trace/TCP dump
	Export current diagnosis results and operation logs

● Wi-Fi Features

Functions
Wi-Fi Switch on/off
Wi-Fi SSID/KEY setup
Support Encryption: OPEN, WPA2-PSK, WPA/WPA2-PSK, WPA3-PSK, WPA2/WPA3-PSK
SSID Broadcast
Wi-Fi protocol IEEE 802.11 b/g/n, IEEE 802.11 ac
Supports Wi-Fi bandwidth setup
Supports Wi-Fi channel self-adaption and selection
Maximum users supported 2.4G Wi-Fi: 32 5G Wi-Fi: 32
Supports multi SSID and guest SSID
WPS, WPS PIN/WPS PBC

● Firewall Features

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



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