

Overview

Hocell 5G CPE IM730 (ODU) is a high-performance 5G & LTE outdoor wireless router based on Unisoc IVY510 modem, which supports 5G NR (SA&NSA), TDD-LTE and FDD-LTE. It's designed with a SIM card slot and a 2.5GE LAN port of PoE, converting cellular network signals into wired network. With IP66 protection level and operating temperature from -20°C~+55°C, the device can support outdoor harsh environment. Designed with PoE, it eliminates the trouble for users to fetch electricity outdoors.

IM730G is the combination of the outdoor 5G router IM730 (ODU) and an indoor unit (IDU). The indoor unit supports one 2.5G WAN port, two Gigabit LAN ports, 2.4G & 5GHz dual-band WIFI, and a telephone port, thereby providing WIFI coverage, wired network and voice services. The 2.5G WAN port supports PSE and can connect to and power the ODU.

IM730 is suitable for outdoor scenarios that require rapid deployment of broadband networks, such as express cabinets, outdoor cameras, outdoor ultra-high-definition video transmission, mobile healthcare, mobile live broadcasting, industrial IoT, robotics, smart agriculture, and traffic command.

IM730G is an ideal wireless broadband access solution for home and SMB when 5G/LTE cellular signal outdoors is good but indoor signal is weak or not available.

ODU
(IM730)



Front



Bottom

IDU
(for IM730G)



Front



Side



Back

Key Features



Harsh Environment



PoE



5G & LTE

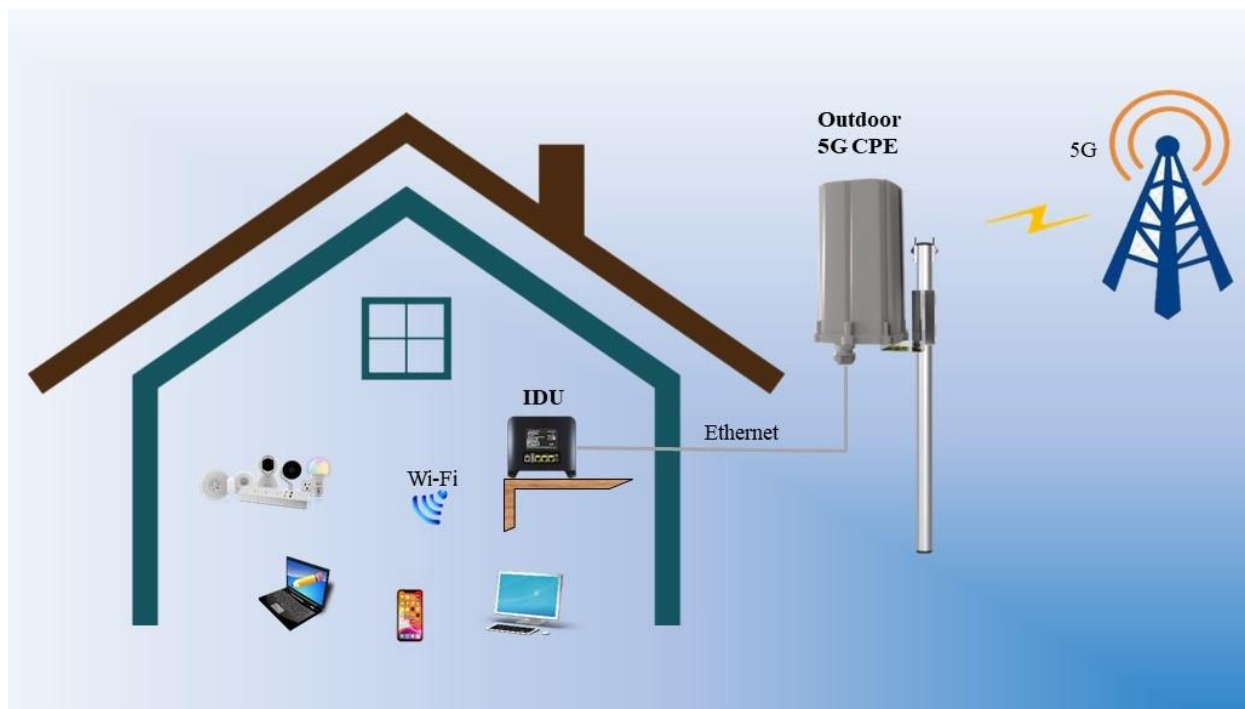


Dual-band Wi-Fi

■ Application Scenarios

● For Home and Commercial Use (IM730G)

When indoor 5G signal is weak or not available, deploy an outdoor 5G CPE and use an IDU for indoor coverage.



● For Industrial Use (IM730)

Suitable for outdoor scenarios that require rapid deployment of broadband networks, such as outdoor cameras, outdoor HD video live streaming, mobile healthcare, industrial IoT, robotics, smart agriculture, and traffic command.



Specification

Hardware Specification

Item	Description
Chipset	5G/LTE: UNISOC IVY510, dual-core ARM Cortex-A55 processor, up to 1.35GHz
	Wi-Fi (On IDU, Optional): Realtek 8198D, 5G Wi-Fi 8812, 2.4G Wi-Fi 8192
RF standard	5G NR SA&NSA (3GPP Release 15) TDD-LTE/FDD-LTE (CAT12)
Memory	ROM: 2 Gb
	RAM: DDR3 4 Gb
Indicators	ODU: POWER/SIM/ETH/RUN/SIGNAL IDU: POWER/SIGNAL/WIFI/INTERNET
Buttons	ODU: RESET Button IDU: Wi-Fi Switch/ WPS Switch/ Reset Button/Power Button
Interfaces	ODU: 1. 1 * Gigabit RJ45 LAN Port 10M/100M/1000M/2.5G auto-sensing, POE 2. SIM Slot * 1 IDU: 1. WAN Port: 1*2.5G, PSE, connect to ODU 2. LAN: 2 * GE 3. RJ11 Port * 1 (Optional) 4. DC Socket
SIM	USIM(2FF), Support 1.8V & 3.3V
Power Supply	POE 36-57V DC, DC 48V, 0.75A
Dimension	ODU: 132*132*176mm IDU: 193.5*172.5*46.5mm
Weight	ODU: 800g, IDU: 320g

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 Supported (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 Currently support NR + LTE 1CC, NR+LTE multiple CC is in roadmap

LTE 3CC	CA Combination Tested (CA Max. 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 test (CA Max. 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
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°C	5G NR/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 SA: 2Gbps (DL)/1Gbps (UL) 5G NSA: 2.2Gbps (DL)/576Mbps (UL) LTE: 600Mbps (DL)/150Mbps (UL)
TDD NR HPUE	Supported

If the 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	Supports two users (admin user and normal user) with different authorization
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, Airplane mode 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	In roadmap
Band Lock	Supported
PCI Lock	Supported
Cell Lock	In roadmap
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	ODU: -20°C~55°C IDU: 0~40°C
Storage Temperature	-20°C~70°C
Operating humidity	95% Maxton-condensing
Storage humidity	95% Maxton-condensing

● Device Management

Item	Description
Software Update	Web UI update TR069 update
TR069	Supports HTTP/HTTPS, Supports uploading / downloading of the ACS specified file, Supports downloading of configuration file, Supports configuration and query of parameters, Supports remote upgrades, Supports cycle monitor
Syslog	Supports the syslog function and sending the log to PC via LAN/Wi-Fi
Diagnostics	Ping/trace/TCP dump

● Wi-Fi Features

Features
Wi-Fi switch on/off
SSID/KEY setup
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
Maximum Speed: 2.4G, up to 300Mbps 5G, up to 866Mbps
Wi-Fi bandwidth setup
Wi-Fi channel self-adaption and selection
Wi-Fi maximum users: 2.4G Wi-Fi, 32; 5G Wi-Fi, 32
Support multi SSID and guest SSID
Support 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



Copyright © Hocell Information Technologies (Shenzhen) Co., Ltd. 2020. All rights reserved.
The information is for reference only and does not constitute any form of commitment.

Hocell Information Technologies (Shenzhen) Co., Ltd.

For more information, please visit our official website: <https://www.hocell.com>

Or contact us directly by:

Email: account@hocell.com

Phone/WhatsApp: +86 18098988754

Hocell