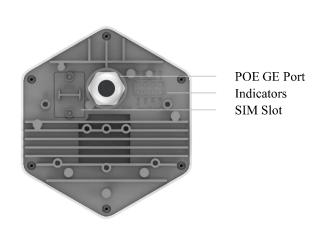
Overview

Hocell 5G CPE IM710 (ODU) is a 5G & LTE outdoor wireless router based on Qualcomm X55, which supports 5G NR (SA&NSA), TDD-LTE and FDD-LTE. It's designed with a SIM card slot and a GE 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.

IM710 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. It can interconnect with a common Wi-Fi router (IDU) to provide indoor Wi-Fi coverage and Ethernet ports for various devices.

IM710 is also suitable for outdoor scenarios that require rapid deployment of broadband network, 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.





Key Features









5G & LTE

Wi-Fi 2.4G for O&M

Application Scenarios

• For Home and Commercial Use

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



• For Industrial Use

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.



■ Hardware & Radio Specification

Finsh 16MB 2Gb 2	Chipsets	MT7621AT+ Qualcomm Snapdragon X55
SG Network Mode	Flash	16MB
SG Network Mode NSA/SA	RAM	2Gb
SG Data Rate	5G Standard	3GPP Release 15, Sub-6 GHz
SG NSA Transmission Speed: DL. 2.5Gbps / UL. 650Mbps	5G Network Mode	NSA/SA
SG NR Sx: n1/n2/n3/n5/n7/n8/n12/n2/n2/n25/n28/n38/n40/n41/n48*/n66/n71/n78/n79 MIMO Downlink: 4 × 4 MIMO on n1/n2/n3/n7/n25/n38/n40/n41/n48/n66/n77/n78/n79 Uplink: 2 × 2 MIMO on n41 LTE Category: Downlink Cat 16/ Uplink Cat 18 LTE-FDD B18/n2/n3/8/n3/8/n38/n38/n312/B13/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71 LTE-TDD B34/B3/8/B39/B40/B41/B42/B43/B48 LAA B46 (Support 2 × 2 MIMO) Downlink 4 × 4 MIMO B1/b2/3/3/B4/B7/B25/B30/B32/B36/B32/B34/B38/39/B40/B41/B42/B43/B48/B66 WCDMA B1/B2/3/3/B4/B5/B6/B8/B19 CA 2CA, 3CA (CA combinations could be provided additionally) BN-FI Frequency 2.4GHz (for O&M) WI-FI Standard 802.11b/g/n 2T2R MIMO WI-FI Throughput 300Mbps Modulation Mode 5G: GMSK/8PSK/DPSK/16QAM/64QAM/256QAM Antennas 4 Built-in SG/LTE omnidirectional antennas 2 Built-in 2.4GHz Wi-Fi antennas Interfaces 1*10/100M/1000 LAN (POE), 1*SIM card slot Button 1*Reset Button LED Indicator POWER/SIM/ETH/RUN/SIGNAL AC/DC Power Supply POE 36-57V DC Power Consumption <20W Environment S8x140x178.3mm	5G Data Rate	5G NSA Transmission Speed: DL 2.5Gbps / UL 650Mbps LTE: DL 1.0 Gbps, UL 200 Mbps
LTE-FDD B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71 LTE-TDD B34/B38/B39/B40/B41/B42/B43/B48 LAA B46 (Support 2 × 2 MIMO) Downlink 4 × 4 MIMO B1/B2/B3/B4/B7/B25/B30/B32/B34/B38/39/B40/B41/B42/B43/B48/B66 WCDMA B1/B2/B3/B4/B7/B25/B30/B32/B34/B38/39/B40/B41/B42/B43/B48/B66 WCDMA B1/B2/B3/B4/B7/B25/B30/B32/B34/B38/39/B40/B41/B42/B43/B48/B66 WCDMA B1/B2/B3/B4/B5/B6/B8/B19 EN-DC LITE+1NR, 2LTE+1NR, 3LTE+1NR (EN-DC combinations could be provided additionally) Wi-Fi Frequency 2.4GHz (for O&M) Wi-Fi Throughput 300Mbps Modulation Mode 5G: GMSK/8PSK/BPSK/QPSK/16QAM/64QAM/256QAM Antennas 4 Built-in 5G/LTE omnidirectional antennas 2 Built-in 2.4GHz Wi-Fi antennas Literfaces 1*10/100M/1000 LAN (POE), 1*SIM card slot LED Indicator POWER/SIM/ETH/RUN/SIGNAL AC/DC Power Supply POE 36-57V DC Power Consumption Cperating Temperature: -20°C~+55°C Storage Temperature: -40°C~+70°C Humidity: 5%~95% (Non condensation) Dimension 158x140x178.3mm	5G Frequency Bands	5G NR SA : n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48*/n66/n71/n77/n78/n79 MIMO Downlink: 4 × 4 MIMO on n1/n2/n3/n7/n25/n38/n40/n41/n48/n66/n77/n78/n79
EN-DC ILTE+1NR, 2LTE+1NR, 3LTE+1NR (EN-DC combinations could be provided additionally) Wi-Fi Frequency 2.4GHz (for O&M) Wi-Fi Standard 802.11b/g/n 2T2R MIMO Wi-Fi Throughput 300Mbps Modulation Mode 5G: GMSK/8PSK/BPSK/QPSK/16QAM/64QAM/256QAM Antennas 4 Built-in 5G/LTE omnidirectional antennas 2 Built-in 2.4GHz Wi-Fi antennas Interfaces 1*10/100M/1000 LAN (POE), 1*SIM card slot Button 1*Reset Button LED Indicator POWER/SIM/ETH/RUN/SIGNAL AC/DC Power Supply POE 36-57V DC Power Consumption Operating Temperature: -20°C~+55°C Storage Temperature: -40°C~+70°C Humidity: 5%~95% (Non condensation) Dimension 158x140x178.3mm	- · · · · · · · · · · · · · · · · · · ·	LTE-FDD B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71 LTE-TDD B34/B38/B39/B40/B41/B42/B43/B48 LAA B46 (Support 2 × 2 MIMO) Downlink 4 × 4 MIMO B1/B2/B3/B4/B7/B25/B30/B32/B34/B38/39/B40/B41/B42/B43/B48/B66 WCDMA
Wi-Fi Frequency 2.4GHz (for O&M) Wi-Fi Standard 802.11b/g/n 2T2R MIMO Wi-Fi Throughput 300Mbps Modulation Mode 5G: GMSK/8PSK/BPSK/QPSK/16QAM/64QAM/256QAM Antennas 4 Built-in 5G/LTE omnidirectional antennas 2 Built-in 2.4GHz Wi-Fi antennas Interfaces 1*10/100M/1000 LAN (POE), 1*SIM card slot Button 1*Reset Button LED Indicator POWER/SIM/ETH/RUN/SIGNAL AC/DC Power Supply POE 36-57V DC Power Consumption Cperating Temperature: -20°C~+55°C Storage Temperature: -40°C~+70°C Humidity: 5%~95% (Non condensation) Dimension 158x140x178.3mm		
Wi-Fi Standard Wi-Fi Throughput 300Mbps Modulation Mode 5G: GMSK/8PSK/BPSK/QPSK/16QAM/64QAM/256QAM Antennas 4 Built-in 5G/LTE omnidirectional antennas 2 Built-in 2.4GHz Wi-Fi antennas Interfaces 1*10/100M/1000 LAN (POE), 1*SIM card slot Button 1*Reset Button LED Indicator POWER/SIM/ETH/RUN/SIGNAL AC/DC Power Supply POE 36-57V DC Power Consumption <20W Environment Operating Temperature: -20°C~+55°C Storage Temperature: -40°C~+70°C Humidity: 5%~95% (Non condensation) Dimension 158x140x178.3mm	CA	2CA, 3CA (CA combinations could be provided additionally)
Wi-Fi Throughput300MbpsModulation Mode5G: GMSK/8PSK/BPSK/QPSK/16QAM/64QAM/256QAMAntennas4 Built-in 5G/LTE omnidirectional antennas 2 Built-in 2.4GHz Wi-Fi antennasInterfaces1*10/100M/1000 LAN (POE), 1*SIM card slotButton1*Reset ButtonLED IndicatorPOWER/SIM/ETH/RUN/SIGNALAC/DC Power SupplyPOE 36-57V DCPower Consumption<20WEnvironmentOperating Temperature: -20°C~+55°C Storage Temperature::40°C~+70°C Humidity: 5%~95% (Non condensation)Dimension158x140x178.3mm		
Modulation Mode 5G: GMSK/8PSK/BPSK/QPSK/16QAM/64QAM/256QAM 4 Built-in 5G/LTE omnidirectional antennas 2 Built-in 2.4GHz Wi-Fi antennas 1*10/100M/1000 LAN (POE), 1*SIM card slot 1*Reset Button 1*Reset Button LED Indicator POWER/SIM/ETH/RUN/SIGNAL AC/DC Power Supply POE 36-57V DC Power Consumption C20W Environment Operating Temperature: -20°C~+55°C Storage Temperature: -40°C~+70°C Humidity: 5%~95% (Non condensation) Dimension 158x140x178.3mm	EN-DC	1LTE+1NR, 2LTE+1NR, 3LTE+1NR (EN-DC combinations could be provided additionally)
Antennas 4 Built-in 5G/LTE omnidirectional antennas 2 Built-in 2.4GHz Wi-Fi antennas Interfaces 1*10/100M/1000 LAN (POE), 1*SIM card slot Button 1*Reset Button LED Indicator POWER/SIM/ETH/RUN/SIGNAL AC/DC Power Supply POE 36-57V DC	EN-DC Wi-Fi Frequency	1LTE+1NR, 2LTE+1NR, 3LTE+1NR (EN-DC combinations could be provided additionally) 2.4GHz (for O&M)
Interfaces 1*10/100M/1000 LAN (POE), 1*SIM card slot Button 1*Reset Button LED Indicator POWER/SIM/ETH/RUN/SIGNAL AC/DC Power Supply POE 36-57V DC Power Consumption Operating Temperature: -20°C~+55°C Storage Temperature: -40°C~+70°C Humidity: 5%~95% (Non condensation) Dimension 158x140x178.3mm	EN-DC Wi-Fi Frequency Wi-Fi Standard	1LTE+1NR, 2LTE+1NR, 3LTE+1NR (EN-DC combinations could be provided additionally) 2.4GHz (for O&M) 802.11b/g/n 2T2R MIMO
Button 1*Reset Button LED Indicator POWER/SIM/ETH/RUN/SIGNAL AC/DC Power Supply POE 36-57V DC Power Consumption <20W Environment Operating Temperature: -20°C~+55°C Storage Temperature:-40°C~+70°C Humidity: 5%~95% (Non condensation) Dimension 158x140x178.3mm	EN-DC Wi-Fi Frequency Wi-Fi Standard Wi-Fi Throughput	1LTE+1NR, 2LTE+1NR, 3LTE+1NR (EN-DC combinations could be provided additionally) 2.4GHz (for O&M) 802.11b/g/n 2T2R MIMO 300Mbps
LED Indicator POWER/SIM/ETH/RUN/SIGNAL AC/DC Power Supply POE 36-57V DC Power Consumption <20W Environment Operating Temperature: -20°C~+55°C Storage Temperature:-40°C~+70°C Humidity: 5%~95% (Non condensation) Dimension 158x140x178.3mm	EN-DC Wi-Fi Frequency Wi-Fi Standard Wi-Fi Throughput Modulation Mode	1LTE+1NR, 2LTE+1NR, 3LTE+1NR (EN-DC combinations could be provided additionally) 2.4GHz (for O&M) 802.11b/g/n 2T2R MIMO 300Mbps 5G: GMSK/8PSK/BPSK/QPSK/16QAM/64QAM/256QAM 4 Built-in 5G/LTE omnidirectional antennas
AC/DC Power Supply POE 36-57V DC 20W Coperating Temperature: -20°C~+55°C Storage Temperature:-40°C~+70°C Humidity: 5%~95% (Non condensation) Dimension 158x140x178.3mm	EN-DC Wi-Fi Frequency Wi-Fi Standard Wi-Fi Throughput Modulation Mode Antennas	1LTE+1NR, 2LTE+1NR, 3LTE+1NR (EN-DC combinations could be provided additionally) 2.4GHz (for O&M) 802.11b/g/n 2T2R MIMO 300Mbps 5G: GMSK/8PSK/BPSK/QPSK/16QAM/64QAM/256QAM 4 Built-in 5G/LTE omnidirectional antennas 2 Built-in 2.4GHz Wi-Fi antennas
Power Consumption <20W Coperating Temperature: -20°C~+55°C Storage Temperature:-40°C~+70°C Humidity: 5%~95% (Non condensation) Dimension 158x140x178.3mm	EN-DC Wi-Fi Frequency Wi-Fi Standard Wi-Fi Throughput Modulation Mode Antennas Interfaces	1LTE+1NR, 2LTE+1NR, 3LTE+1NR (EN-DC combinations could be provided additionally) 2.4GHz (for O&M) 802.11b/g/n 2T2R MIMO 300Mbps 5G: GMSK/8PSK/BPSK/QPSK/16QAM/64QAM/256QAM 4 Built-in 5G/LTE omnidirectional antennas 2 Built-in 2.4GHz Wi-Fi antennas 1*10/100M/1000 LAN (POE), 1*SIM card slot
Coperating Temperature: $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$ Storage Temperature: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ Humidity: $5\% \sim 95\%$ (Non condensation) Dimension $158x140x178.3\text{mm}$	EN-DC Wi-Fi Frequency Wi-Fi Standard Wi-Fi Throughput Modulation Mode Antennas Interfaces Button	1LTE+1NR, 2LTE+1NR, 3LTE+1NR (EN-DC combinations could be provided additionally) 2.4GHz (for O&M) 802.11b/g/n 2T2R MIMO 300Mbps 5G: GMSK/8PSK/BPSK/QPSK/16QAM/64QAM/256QAM 4 Built-in 5G/LTE omnidirectional antennas 2 Built-in 2.4GHz Wi-Fi antennas 1*10/100M/1000 LAN (POE), 1*SIM card slot 1*Reset Button
Environment Storage Temperature:-40°C~+70°C Humidity: 5%~95% (Non condensation) Dimension 158x140x178.3mm	EN-DC Wi-Fi Frequency Wi-Fi Standard Wi-Fi Throughput Modulation Mode Antennas Interfaces Button LED Indicator	1LTE+1NR, 2LTE+1NR, 3LTE+1NR (EN-DC combinations could be provided additionally) 2.4GHz (for O&M) 802.11b/g/n 2T2R MIMO 300Mbps 5G: GMSK/8PSK/BPSK/QPSK/16QAM/64QAM/256QAM 4 Built-in 5G/LTE omnidirectional antennas 2 Built-in 2.4GHz Wi-Fi antennas 1*10/100M/1000 LAN (POE), 1*SIM card slot 1*Reset Button POWER/SIM/ETH/RUN/SIGNAL
	EN-DC Wi-Fi Frequency Wi-Fi Standard Wi-Fi Throughput Modulation Mode Antennas Interfaces Button LED Indicator AC/DC Power Supply	1LTE+1NR, 2LTE+1NR, 3LTE+1NR (EN-DC combinations could be provided additionally) 2.4GHz (for O&M) 802.11b/g/n 2T2R MIMO 300Mbps 5G: GMSK/8PSK/BPSK/QPSK/16QAM/64QAM/256QAM 4 Built-in 5G/LTE omnidirectional antennas 2 Built-in 2.4GHz Wi-Fi antennas 1*10/100M/1000 LAN (POE), 1*SIM card slot 1*Reset Button POWER/SIM/ETH/RUN/SIGNAL POE 36-57V DC
Weight 800g (Excluding accessories and package)	EN-DC Wi-Fi Frequency Wi-Fi Standard Wi-Fi Throughput Modulation Mode Antennas Interfaces Button LED Indicator AC/DC Power Supply Power Consumption	1LTE+1NR, 2LTE+1NR, 3LTE+1NR (EN-DC combinations could be provided additionally) 2.4GHz (for O&M) 802.11b/g/n 2T2R MIMO 300Mbps 5G: GMSK/8PSK/BPSK/QPSK/16QAM/64QAM/256QAM 4 Built-in 5G/LTE omnidirectional antennas 2 Built-in 2.4GHz Wi-Fi antennas 1*10/100M/1000 LAN (POE), 1*SIM card slot 1*Reset Button POWER/SIM/ETH/RUN/SIGNAL POE 36-57V DC <20W Operating Temperature: -20°C~+55°C Storage Temperature: -40°C~+70°C
	EN-DC Wi-Fi Frequency Wi-Fi Standard Wi-Fi Throughput Modulation Mode Antennas Interfaces Button LED Indicator AC/DC Power Supply Power Consumption Environment	1LTE+1NR, 2LTE+1NR, 3LTE+1NR (EN-DC combinations could be provided additionally) 2.4GHz (for O&M) 802.11b/g/n 2T2R MIMO 300Mbps 5G: GMSK/8PSK/BPSK/QPSK/16QAM/64QAM/256QAM 4 Built-in 5G/LTE omnidirectional antennas 2 Built-in 2.4GHz Wi-Fi antennas 1*10/100M/1000 LAN (POE), 1*SIM card slot 1*Reset Button POWER/SIM/ETH/RUN/SIGNAL POE 36-57V DC <20W Operating Temperature: -20°C~+55°C Storage Temperature: -40°C~+70°C Humidity: 5%~95% (Non condensation)

■ Software Specification

Software Functions	
Firewall	
IPV4	
IPV6	
Smart QOS	
Parent Control	
UPNP	
VPN (L2TP VPN client, PPTP VPN client)	
APN	
DHCP	
DDNS	
DMZ	
Port Mapping	
PIN management	
SIM card authentication	
Static route	
NAT/router mode	
TR069	
WebUI update	
Wi-Fi encryption (Open, WEP, WPA2-PSK, AES, TKIP+AES)	
Backup/restore settings	