

**MaxComm**



**OWR-206**  
**5G Outdoor CPE**

Sub6G – SA/NSA  
3GPP Release15

OWR-206 is a highly advanced Sub-6G 5G NR Outdoor multi-service product solution specifically designed to meet integrated data needs for residential, business and enterprise users. The product supports advanced Gigabit networking functionalities. It enables wide service coverage and provides high data throughput and networking features to customers who needs easy broadband access.

## Key Features

- 5G NR and LTE-A Cat19 Dual mode
- Support both NSA and SA modes
- Support 5G 2CC CA
- Worldwide Sub-6 5G and LTE-A coverage
- Built-in high gain wide bandwidth antennas
- Support 1x Gigabit LAN ports
- Powerful software features, support NAT, Bridge and Route mode
- IPv4&IPv6 and Multiple PDN support
- Built-in VPN and L2/L3 GRE client support
- WEB, TR069 and SNMP based device management

## Hardware Specifications

| Spec              | Description   |
|-------------------|---|
| Chipset           | 5G/LTE:<br>MediaTek T750, 4 core ARM Cortex-A55 CPU @2GHz                                       |
| RF standard       | 5G NR (3GPP Release 15)<br>TDD-LTE/FDD-LTE<br>WCDMA   |
| Memory            | ROM: 8Gb(Max) Nand<br>RAM: 8Gb(Max) DDR3  |
| Indicators        | 1. Run<br>2. SIM<br>3. ETH<br>4. SYS<br>5. RF Signal*4  |
| Buttons           | Reset Button  |
| Interfaces        | 1. 1x GE RJ45 Port<br>2. 1x SIM Slot (2FF)<br>3. 1x eSIM (Option)<br>4. miniUSB for Manufacture |
| Power Supply      | AC100V~240V,50Hz~60Hz<br>DC 24V 1.5A DC<br>Passive POE  |
| Power Consumption | < 24W   |
| Dimensions        | 280(H)×165(W)×56(T)mm   |
| Net Weight        | 700 g   |

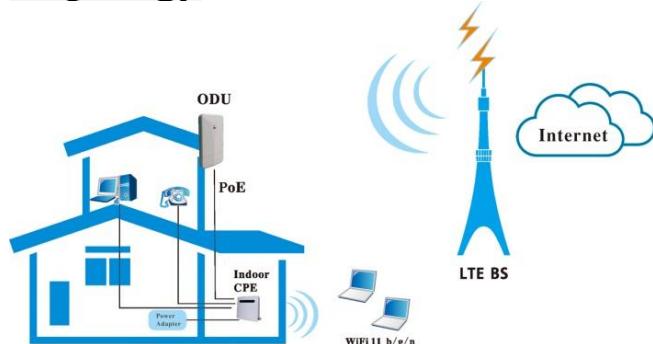
## RF Specifications

| Feature             | Capability  |
|---------------------|---|
| Support Bands       | 5G NR:<br>n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78 (EA)<br>n2/n5/n7/n12/n25/n41/n48/n66/n71/n77/n78 (NA)  |
|                     | LTE FDD:<br>B1/B3/B5/B7/B8/B20/B28/B32 (EA)<br>B2/B4/B5/B7/B12/B13/B14/B25/B26/B29/B30/B66/B71 (NA)   |
|                     | LTE TDD:<br>B38/B40/B41/B42/B43 (EA)<br>B41/B42/B43/B48 (NA)  |
|                     | WCDMA: B1/ B5/ B8   |
| Carrier Aggregation | Supports 5G 2CC CA  |
| NR-Sub6 Modulation  | 200MHz 2 DLCA, 256 QAM<br>200MHz 2 ULCA, 256 QAM<br>15KHz/30KHz SCS for FDD/TDD   |
| LTE Modulation      | 100MHz 5 DLCA, 256 QAM<br>40MHz 2 ULCA, 256 QAM   |
| MIMO                | <b>5G DL 4 × 4 MIMO:</b><br>n1/n3/n7/n38/n40/n41/n77/n78 (EA)<br>n2/n7/n25/n41/n48/n66/n71/n77/n78(NA)  |
|                     | <b>5G UL 2 × 2MIMO</b><br>n41/n77/n78(EA)<br>n41/n48/n77(NA)  |
|                     | <b>LTE DL 4 × 4MIMO</b><br>B1/B3/B7/B38/B40/B41/B42/B43   |
| 5G/4G TX/RX         | 1T2R/1T4R/2T4R  |
| Output Power@25°C   | 5G NR: 23±1.5dBm<br>* N41/77/78/79: 26±1.5dBm<br>LTE: 23±1.5dBm   |
| 5G/4G Antenna       | 8 Built-in 5G&4G antennas   |
| 5G/4G Antenna Gain  | 8 dBi   |
| Peak Throughput     | <b>5G SA Sub-6 GHz</b><br>4.67 Gbps (DL)/ 2.5 Gbps (UL)<br><b>5G NSA Sub-6 GHz</b><br>3.74 Gbps (DL)/ 1.46 Gbps (UL)<br><b>LTE</b> 1.6 Gbps (DL)/ 211 Mbps (UL) |

## Environment Specifications

| Feature               | Capability            |
|-----------------------|-----------------------|
| Operating Temperature | -30°C~55°C            |
| Storage Temperature   | -40°C~85°C            |
| Operating humidity    | 95% Maxton-condensing |
| Storage humidity      | 95% Maxton-condensing |

## Topology



## Overview

| Item              | Description   |
|-------------------|---|
| Language          | English, Simple Chinese.                                      |
| Status indicator  | SIM Card Status, Data transmission, Signal Strength, Language |
| Internet Status   | Internet Status, Operator, Network Mode, Cell ID, RSRP, RSRQ  |
| WAN Info          | Connect Mode, IP Address, Subnet Mask, DNS Server             |
| LAN Info          | IP Address, Subnet Mask, MAC Address                          |
| Rate Info         | DL/UL Data Rate, Online Time                                  |
| Device & SIM Info | Product Model, IMEI, Software Version, UICCID, IMSI           |

## STATISTICS

| Item        | Description  |
|-------------|--|
| Statistics  | CPU Usage, Memory Usage, APN List, Bandwidth Statistics, Throughput Statistics |
| Device List |  |

## Update

| Item            | Description                        |
|-----------------|------------------------------------|
| Version Manager | Version Information, Local Upgrade |
| Auto Upgrade    | FOTA Upgrading                     |

## Network Settings

| Item               | Description   |
|--------------------|---|
| Device Information | System Information, Version Information, LAN Status   |
| WAN Settings       | Network Mode: NAT, Bridge, Router   |
| NR/LTE Settings    | Connect Method, Roaming Switch, LTE/NR Network Status   |
| Scan Mode          | Full Band, Band Lock, Earfcn Lock, PCI Lock   |
| APN Management     | APN Settings, APN List  |
| LAN Settings       | LAN Host Settings, DHCP Settings  |
| Firewall           | MAC Filtering, IP Filtering, URL Filtering, Port Forwarding, Port Triggering, Access Restriction, UPnP, DoS |
| VPN                | PPTP, L2TP, L2TPv3, GRE   |
| IPv6               | IPv4v6 Dual Stack supported   |
| SMS                |   |
| Other Functions    | DMZ, SIM lock, PIN management, DDNS   |

## Device Management

| Spec          | Description   |
|---------------|---|
| Maintenance   | Scheduled Reboot, Reboot, Reset   |
| TR069         | Support HTTP/HTTPS url, Support remote upgrade, Support cycle monitor, Support TR143 for remote test, Support STUN for Nat pass through |
| SNMP (option) | Support SNMP v2/v3  |
| NTP           | Auto, Manual, DST   |
| Diagnostics   | Ping, Traceroute, Iperf   |
| Syslog        | 8 levels for debugging  |
| WEB Settings  | Manage the web access settings  |
| Account       | Account management  |