

# SUNCOMM

5G CPE

01

5G Wireless Data Terminal



## Overview

**5G & WiFi-6 Smart Router System (CPE)**, is based on brand-new embed platform, it can be satisfied with growing-up mobile **connections** requirements and provides the fast speed beyond your imagination.

The CPE is compatible with NSA/SA dual-mode, suits to all network types all over the world, it means you just plug and play it and enjoy the ultra-fast broadband connection at any places.

The CPE brings the new way to enable you experience VR/AR/4K/8K streaming freely and easily. With 802.11ax (Wi-Fi 6) technology built-in, the single CPE has wider wireless coverage and more bandwidth. Meanwhile the CPE brings higher security, better network efficiency and longer battery life.

## Features

**5G NR** Qualcomm™SDX62  
modem

**WiFi6** AX3000  
Support 160M bandwidth



**2.5G Port**  
High-speed interface

**MESH** Support MESH networking

## Appearance



## Application scenarios



mobile office



Meeting



shopping



game



## Technical Specifications

|                       |                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                 | O1                                                                                                                                                                                                                                                                                                                                                      |
| CPU                   | IPQ5018+SDX62                                                                                                                                                                                                                                                                                                                                           |
| WiFi Frequency        | 2.4G&5G                                                                                                                                                                                                                                                                                                                                                 |
| WiFi Standard         | 2.4G:802.11b/g/n /ax 2T2R MIMO, 5.8GHz: 802.11a/n/ac/ax 2T2R MIMO                                                                                                                                                                                                                                                                                       |
| WiFi                  | 2.4GHz :600Mbps ,5GHz :2400Mbps                                                                                                                                                                                                                                                                                                                         |
| 5G NR                 | <b>3GPP Release 16 NSA/SA operation, Sub-6 GHz</b>                                                                                                                                                                                                                                                                                                      |
| 5G Network Mode       | NSA/SA                                                                                                                                                                                                                                                                                                                                                  |
| 5G/4G Data Rate       | 5G SA Transmission Speed:2.1Gbps/900Mbps (up to ISPs)<br>5G NSA Transmission Speed:2.5Gbps/650Mbps (up to ISPs)<br>LTE : Down 1.0 Gbps; UP 200 Mbps                                                                                                                                                                                                     |
| 5G Frequency Bands    | <b>5G NR NSA</b><br>n1/ 2/ 3/ 5/ 7/ 8/ 12/ 13/ 14/ 18/ 20/ 25/ 26/ 28/ 29/ 30/ 38/ 40/ 41/ 48/ 66/ 70/ 71/ 75/ 76/ 77/ 78/ 79<br><b>5G NR SA</b><br>n1/ 2/ 3/ 5/ 7/ 8/ 12/ 13/ 14/ 18/ 20/ 25/ 26/ 28/ 29/ 30/ 38/ 40/ 41/ 48/ 66/ 70/ 71/ 75/ 76/ 77/ 78/ 79<br><b>MIMO</b><br>Downlink: 4 × 4 MIMO on n1/n2/n3/n7/n25/n38/n40/n41/n48/n66/n77/n78/n79 |
| 4G&3G Frequency Bands | <b>Downlink Cat 19/ Uplink Cat 18</b><br><b>LTE-FDD</b><br>B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 14/ 17/ 18/ 19/ 20/ 25/ 26/ 28/ 29/ 30/ 32/ 66/ 71<br><b>LTE-TDD</b><br>B34/ 38/ 39/ 40/ 41/ 42/ 43/ 48<br><b>MIMO</b><br>DL: 4 × 4 MIMO on B2/B4/B5/B12/B13/B14/B17/B25/B26/<br>B29/B30/B66/B41/B42/B43/B48/B71<br><b>WCDMA</b><br>B1/ 2/ 4/ 5/ 8/ 19         |
| Modulation Mode       | <b>5G:</b><br>GMSK/8PSK/BPSK/QPSK/16QAM/64QAM/256QAM<br><b>WIFI:</b><br>1024-QAM / OFDMA                                                                                                                                                                                                                                                                |
| Dimension             | 108X108X216MM                                                                                                                                                                                                                                                                                                                                           |
| Interface             | 2*10/100M/1000 LAN<br>1*10/100M/1000/2500 WAN<br>1*12V 2A DC Power Input<br>1 Reset Button<br>1 SIM card slot(4FF SIM card Support SIM/USIM/UIM, standard 6 PIN SIM card interface, support 3V SIM card and 1.8V SIM card: internal)<br>1 Breathing Light Button                                                                                        |

|                   |                                                                                                                     |
|-------------------|---------------------------------------------------------------------------------------------------------------------|
|                   | 1 MESH Networking Button                                                                                            |
| Network Extension | MESH                                                                                                                |
| Reset             | Reset (Long press 10 seconds to restore the factory settings)                                                       |
| MESH              | Networking: short press (blue networking light flashes)                                                             |
| LED Indicator     | Power, Breathing Light, 4G Signal, 5G Signal, WiFi Signal                                                           |
| Power Consumption | < 24W                                                                                                               |
| Environment       | Operating Temperature: -20°C ~ +50°C<br>Storage Temperature: -40°C ~ +70°C<br>Humidity: 5% ~ 95% (Non condensation) |
| Weight            | 1.8KG (Includes color box accessories)                                                                              |



## Network Connection Diagram

### What's in the package?

---

- One (1) 5G CPE Router (O1)
- One (1) 1m Cat6 Ethernet cable
- One (1) Power Adapter
- Quick Start Guide

\*: under development / in progress.

Maximum wireless signal range derived from IEEE standard 802.11 specifications. Actual data throughput and data over distance will vary. Network conditions and environmental factors, including volume of network traffic, building material and construction, and network overhead, result in lower actual data throughput rate and wireless coverage.