# Tenda

All for better networking.

# O4

5GHz 12dBi 11AC 867Mbps Gigabit Outdoor CPE

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## 5GHz 12dBi 11AC 867Mbps Gigabit Outdoor CPE

## What it does

O4V3.0 5GHz Outdoor CPE is designed to PtP&P2MP solutions for video surveillance transmission and wireless broadband access. Adopts of 11ac wireless technology and gigabit ethernet Port design, the maximum throughput for ptp connection can be up to 450Mbps. It features with 12dBi dual polarization directional antenna to provide an efficient way to pick up and maintain a stable long range connection.

## Key Features

- 5GHz 11AC 867Mbps
- 12dbi directional antenna
- Two Gigabit Ethernet Port
- Pre-configured & Plug and Playč kitĎ
- IP65 waterproof enclosure
- 6000V Lightning Protection
- 802.3af PoE/12V 1A DC/12V 1A Passive PoE supported

# Product Features

### 5+km transmission Range

O4V3.0 adopts of internal power amplifier and 12dBi directional antenna to provide an efficient way to pick up and maintain a stable signal for a wireless network up to 5km.

### Easy to Setup and Manage

O4V3.0 comes with a centralized management software that helps users easily to manage all the devices in the network from a single PC-CPE Assitant.

### Flexible power supply method enable it easy to deployment

O4V3.0 supports PoE 802.3af/at, 12V 1A Passive PoE and 12V 1A DC power supply optional. It helps the engineer to deployment the device flexiblely.

### Professional Outdoor Design

Equipped with IP65 waterproof enclouse and high quality hardware design, O4V3.0 can work in various weather conditions, such as sunshine, rainfall or extremely low/high temperature environment

### Auto-bridge technology enable it to easy setup

For single pack, IP-COM proprietary auto-bridge technology, makes the CPE or basestation in factory default settings connect to each other automaticaly after the device is powered on. For kit pack, the two CPESs inside are pre-configured at the factory, so plug and play is supported without manual pairing. It is very useful for the person who is not familiar with network knowledge, especially for CCTV surveillance transmission application.

### TD-MAX--Tenda TDMA proprietary protocol

TD-MAX is Tenda TDMA (Time Division Multiple Access) proprietary protocol to improve performance and capacity for wireless P2MP outdoor application scenarios.
In outdoor enviroment, the CPE use highly directional antennas to connect to the Basestation from distances that can span several kilometers. the CPE can't sense each other, they become "hidden nodes" and cannot coordinate access to the wireless channel. Thus the Basestation experiences frequent collisions from stations transmitting simultaneously. As the network scales, these collisions build up exponentially, increasing latency and lowering throughput.
With TD-MAX, it coordinate all the data transmission and allocates time to active clients to provide greater noise immunity performance when compared to the conventional 802.11 CSMA/CA (Carrier Sense Multiple Access / Collision Avoidance) protocol.

# Multiple Application Scenarios

## Long-Distance Wireless Connection

One work as AP mode and another work as Station mode to create a long distance wrieless connecton for video surveillance and data transmission.

**1** **Long-Distance Wireless Connection**
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## WISP(Client+Router) Mode

Wirelessly connect to WISP station/hotspot to share Internet to local wireless and wired network.

**2** **WISP(Client+Router) Mode**
Wirelessly connect to WISP station/hotspot to share Internet to local wireless and wired network.

# Specification

## Product Information

| | |
|---|---|
| Model | O4 |
| Dimensions | 193*109*61mm |
| Deployment | Pole/Wall Mount |
| Application Scenarios | PtP and PtMP wireless connection for Privated ISP access or CCTV Surveillance |

## Hardware Features

| | |
|---|---|
| Frequency Range | 5GHz |
| Compliant Standards | IEEE802.11a/n/ac |
| Private TDMA Protocol | TD-MAX |
| Maximum Wireless Rate | 867Mbps |
| Interfaces | 2*10/100/1000Mbps LAN Port |
| Antennas Gain | 12dBi |
| Antenna Beamwidth | Horizontal:30° Vertical: 30° Elevation:30° |
| Reset Button | 1 |
| Power Consumption | 6.5W |
| Waterproof Level | IP65 |
| LED indicator | Power,LAN1,LAN2,LED1,LED2,LED3 |
| Power Method | PoE802.3af/at<br>12V 1A Passive PoE<br>12V 1A DC |
| Antennas Gain | 12dBi |
| Lightning Protection | 6000V |
| PoE802.3af/at | Power over ethernet up to 100 meters |
| Passive PoE | Passive power over ethernet via PoE/LAN(+4,5pins; -7,8pins ) up to 60 meters<br>Voltage range:9-24V DC |
| Receiver sensitivity | 11a 6Mbps  -92dBm±1.5dBm<br>11n MCS7 HT20  -72dBm±1.5dBm<br>11ac MCS9 HT80 -64dBm±1.5dBm |

# Specification

| Software Features | |
|---|---|
| Operating mode | AP/Station/WISP/P2MP/WDS Repeater/Router |
| Enable/Disable Wireless Radio | Support |
| SSID Hidden | Support |
| Wireless Client isolation | Support |
| SSID Isolation | Support |
| Channel Bandwidth | 20/40/80MHz |
| Client Limitation For SSID | Support |
| Wireless Access Control | Support |
| Weak Signal Client Limitation | Support |
| Transmission Power | Adjustable power by 1dBm |
| WMM Capable | Support |
| APSD Capable | Support |
| Wireless Security | WPA-PSK,WPA2-PSK,Mix WPA/WPA2-PSK |
| Transparent Bridge | Support |
| VLAN Tagging for SSID | Support |
| DHCP Server | Support |
| VPN Pass-Through | PPTP,L2TP |
| Remote Web access | Support |
| Schedule Reboot | Support |
| Page Timeout | Support |
| Ping Watchdog | Support |
| Dyndns | noip, dyndns.org |
| Network Diagnoses | Ping, Traceroute, Signal Scan |
| Time&Date Setting | Support |
| Firmware upgrade | Support |
| Backup/Restore Configuration | Support |
| Username Managerment | Support |
| System Log | Support |
| Managed By Controller | PC Software -- CPE Assitant |

# Specification

| Software Features | |
|---|---|
| Package Contents | 1*5GHz 12dBi 11AC 867Mbps Gigabit Outdoor CPE<br>1*Power Adapter<br>1*PoE Injector<br>1*Quick Installation Guide |
| Operating Temperature | -30°C ~ 60°C |
| Storage Temperature | -40°C ~ 70°C |
| Operating Humidity | 10%~90%non-condensing |
| Storage Humidity | 10%~90%non-condensing |
| Default login IP | 192.168.2.1 or 192.168.2.2 |
| Default Login Username | admin |
| Default Login Password | admin |
| Certifications | FCC/CE/RoHS |

Shenzhen Tenda Technology Co., Ltd.

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