

**Tenda**



All for better networking.

**O4**

5GHz 12dBi 11AC 867Mbps Gigabit Outdoor CPE



# O4

## 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 Play (kit)
- IP65 waterproof enclosure
- 6000V Lightning Protection
- 802.3af PoE/12V 1A DC/12V 1A Passive PoE supported

# Product Features

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## 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 flexibly.



## 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 automatically 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

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## Long-Distance Wireless Connection

One work as AP mode and another work as Station mode to create a long distance wireless connection 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**  
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# 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	IEEE 802.11a/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	PoE 802.3af/at 12V 1A Passive PoE 12V 1A DC
Antennas Gain	12dBi
Lightning Protection	6000V
PoE 802.3af/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 Voltage range: 9-24V DC
Receiver sensitivity	11a 6Mbps -92dBm±1.5dBm 11n MCS7 HT20 -72dBm±1.5dBm 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

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## Software Features

Package Contents	1*5GHz 12dBi 11AC 867Mbps Gigabit Outdoor CPE 1*Power Adapter 1*PoE Injector 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.

Address: 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China 518052  
Email: [sales@tenda.com.cn](mailto:sales@tenda.com.cn)  
[support@tenda.com.cn](mailto:support@tenda.com.cn)  
Website: [www.tenda.cn](http://www.tenda.cn)

