

*Tenda*



All for better networking.

OS3

5GHz 12dBi 11AC 867Mbps Outdoor CPE

[www.tendacn.com](http://www.tendacn.com)



# OS3

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

### What it does

OS3 5GHz Outdoor CPE is designed to PtP&P2MP solutions for video surveillance transmission and wireless broadband access. Adopts of 11ac wireless technology, the maximum wireless rate can be up to 867Mbps. 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
- Four fast ethernet Port
- IP65 waterproof enclosure
- 6000V Lightning Protection
- 12V 1A DC/12V 1A Passive PoE supported

# Product Features

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## 5+km transmission Range

OS3 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.



## Flexible power supply method enable it easy to deployment

OS3 supports 12V 1A Passive PoE and 12V 1A DC power supply option. It helps the engineer to deploy the device flexibly.



## 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 environment, 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.



## Auto-bridge technology enable it to easy setup

OS3 supports auto-bridge technology, It enables the CPE or basestation in factory default settings to connect to each other automatically after the device is powered on. It is very useful for the person who is not familiar with network knowledge, especially for CCTV surveillance transmission application.

# Product Features

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## Easy to Setup and Manage

OS3 comes with a centralized management software that helps users easily to manage all the devices in the network from a single PC-CPE Assistant.



## Professional Outdoor Design

Equipped with IP65 waterproof enclosure and high quality hardware design, OS3 can work in various weather conditions, such as sunshine, rainfall or extremely low/high temperature environment



## Multiple Application Scenarios

### PtP Connection For CCTV Transmission

One work as AP mode and another work as Station mode to create a long distance wireless connection for video surveillance



## PtP Connection For internet sharings

One work as AP mode and another work as Station mode to create a long distance wireless connection for internet sharing between buildings or neighbors



## Wireless Internet Access for Private ISP

Wirelessly connect to Private ISP tower signal to share Internet to local wireless and wired network.

# Specification

Hardware specifications	
Model	OS3
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	4*10/100 LAN Port
Antennas Gain	12dBi
Antenna Beamwidth	Horizontal: 30° Vertical: 30° Elevation: 30°
Reset Button	1
Power Consumption	5W
Waterproof Level	IP65
LED indicator	Power,PoE/LAN1,LAN2,LAN3,LAN4LED1,LED2,LED3
Power Method	12V 1A Passive PoE 12V 1A DC
Lightning Protection	6000V
PoE 802.3af/at	/
Passive PoE	Passive power over ethernet via PoE/LAN (+4,5pins; -7,8pins ) up to 60 meters Voltage range: 9-13V DC
Receiver sensitivity	11a 6Mbps -90dBm±1.5dBm 11n MCS0 HT20 -70dBm±1.5dBm 11n MCS7 HT20 -70dBm±1.5dBm 11ac MCS9 HT80 -59dBm±1.5dBm

Software Features	
Operating mode	AP/Station/WISP/ Repeater/Router
Enable/Disable Wireless Radio	Support
SSID Hidden	Support
Wireless Security	WPA-PSK,WPA2-PSK,Mix WPA/WPA2-PSK
SSID Isolation	Support

# Specification

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Software Features	
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	64/128 WEP, WPA-PSK, WPA2-PSK, WPA&WPA2-PSK, WPA, WPA2
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 Management	Support
System Log	Support
Managed By Controller	PC Software -- CPE Assitant

# Specification

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Others	
Package Contents	1*5GHz 12dBi 11AC 867Mbps 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	192.168.2.1/192.168.2.2
Default Login Username	admin
Default Login Password	admin
Certifications	FCC/CE/RoHS

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