

Tenda



All for better networking.

OS3

5GHz 12dBi 11AC 867Mbps Outdoor CPE

www.tendacn.com



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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



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.

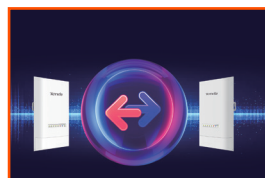


TD-MAX--Tenda TDMA proprietary protocol

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



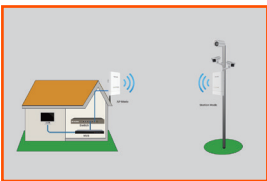
Easy to Setup and Manage

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

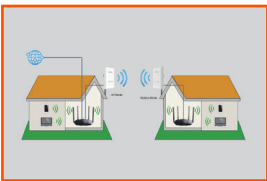
Equipped with IP65 waterproof enclosure and high quality hardware design, OS3 can work in various weather conditions, such as sunshine, rainfall or extremely low/high temperature environment



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 connecton 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 connecton 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 | 4.7W |
| 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 -92dBm±1.5dBm 11n MCS7 HT20 -72dBm±1.5dBm 11ac MCS9 HT80 -64dBm±1.5dBm |

| 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 |

Specification

| 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

| 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 |
| Default Login Username | admin |
| Default Login Password | admin |
| Certifications | FCC/CE/RoHS |

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