





All for better networking.

O8 5GHz 23dBi 11ac Outdoor CPE





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What it does

O8 5GHz 23dBi 11ac Outdoor CPE is designed to PtP and PtMP solutions for private ISP wireless connectivity, CCTV surveillance and data transmission. It features with 23dBi directional vertical polarization antenna to provide an efficient way to pick up and maintain a stable long-distance connectivity up to 20km. Adopt of auto-bridging technology, two CPE can connect to each other automatically to make it easy to setup.

Key Features

- * 5GHz 11ac 433Mbps
- * One fast ethernet port
- * 23dbi directional antenna
- * IP65 weatherproof enclosure
- * 6000V Lightning Protection
- * AP, Station, WISP operating mode supported
- * Up to 50 meters of flexible deployment with included PoE adapter

Product Features

20km+ transmission Range

O8 adopts of the independent power amplifier and 23dBi dual polarization directional antenna to provide an efficient way to pick up and maintain a stable signal for a wireless network up to 20km.

6000V Surge Protection Design

O8 adopts of 6000V ethernet port Surge protection design, It can be more robust in the thunder season.

Easy to Assemble and Install

O8 adopts of three-axis alignment, it is easy to assemble in seconds – no tools needed. Only a single screw driver is required for pole-mounting.

TD-MAX-TendaTDMA proprietary protocol

TD-MAX is Tenda TDMA (Time Division Multiple Access) proprietary protocol to improve performance and capacity for wireless WISP outdoor application scenarios. In the outdoor environment, the CPE uses 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 coordinates 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.

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Product Features

Channel shift to avoid interferrence

O8 provides the Channel Shift feature to offset the central frequency 5MHz upper. It can avoid interference from nearby AP and deliver higher throughput.

CPE Assistant-Centralized Management Platform

O8 equipped with centralized management software that helps users easily manage all the devices in their network from a single PC - CPE Assistant. Functions like device discovery, status monitoring, firmware upgrading, and network maintenance can be managed using CPE Assistant.

Multiple Application Scenarios

Long-Distance Wireless Connection

One work as AP mode and another work as Station mode to create a long distance PtP wrieless connection for privated ISP wireless connectivity, CCTV surveillance and data transmission.

WISP(Client+Router) Mode

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

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Specification

Model 08 Dimensions 391,5*280*223mm Deployment Pole 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 433Mbps Interfaces 1*10/100Mbps Ethernet Port Antennas Gain 23dBi Antenna Folarization Veritcal Polarization Antenna Beamwidth Vertical: 10* Elevation: 10* Reset Button 1 Power Consumption 5.5W Waterproof Level IP65 LED Indicator PoE/LAN,LED1,LED2,LED3 Power Method 12V1A Passive PoE Lightning Protection 6000V Passive PoE Passive power over ethenet via PoE/LAN (+4,5pins; -7,8pins) Voltage range: 9-35d m± 1.5dBm 11ac MCS9 HT80 -64dBm± 1.5dBm 11ac MCS9 HT80 -64dBm± 1.5dBm 13ac MCS9 HT80 -64dBm± 1.5dBm 15lIdden Support SID Hidden Support SID Hidden Support SID Bolation Support SID Bolation Support Channel Bandwidth Support Channel Bandwidth Support	Product Information	
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Channel Bandwidth 20/40/80MHz		
	Channel Shift	Support

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Specification

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 Managerment	Support
System Log	Support
Managed By Controller	PC Software—CPE Assistant
Others	
Package Contents	1*5GHz 23dBi 11ac Outdoor CPE O8 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

