

OW-215N2-X

eXtreme Power 11na 5GHz 2x2+15dBi Outdoor Bridge (500mW)

EAN Code : 4712757151732

OW-200N2-X

eXtreme Power 11na 5GHz 2x2 Outdoor Bridge (500mW)

EAN Code : 4712757151725



OW-215N2-X



OW-200N2-X

Introduction

Cerio's **OW-215N2-X** and **OW-200N2-X 500mW Outdoor Access Points** are rugged IP68 devices made to withstand harsh environment deployment. Bundled with our **CenOS 3.0 software core and support Cerio Wireless Management Software (CWMS)**, these 5GHz 11an devices are idea for long distance point-to-point connections. Both APs support four different operation modes, and have been tested at distances of up to 35km (OW-200N2-X).

OW-215N2-X and **OW-200N2-X** can connect to the Wi-Fi mesh or WDS infrastructures, and provides the subscriber with an Ethernet connection for a local access to extend the range and increase the performance of a wireless network. OW-215N2-X and OW-200N2-X **support a passive PoE design**, allowing power and data to be supplied to the unit using CAT5 Ethernet cable.

OW-215N2-X and **OW-200N2-X's PoE design supports PoE Bridge function**. This function effectively uses the device's power surplus to provide power and data to subsequent PoE devices. This design can be used to deploy devices such as IP cameras and additional access points, conveniently using OW-215N2-X or OW-200N2-X as a power supply. OW-215N2-X and OW-200N2-X's **die cast aluminum housing meets IP68 water resistant** ratings for rugged outdoor deployment. This provides product durability and user peace of mind when deploying wireless devices in outdoor environments.

This combination of powerful software and quality hardware design makes our OW-215N2-X and OW-200N2-X the perfect product for any outdoor wireless application.

Highlight Features

- 5GHz band supports 802.11an wireless protocol with a maximum data transfer rate of 300Mbps
- 500mW at 5Ghz Output eXtreme High Power design
- **OW-215N2-X**: Supports a built in +15dBi , 5GHz (H65, E35) Directional Panel Antenna
- **OW-200N2-X**: Supports 2 external 5GHz N-Type Antenna Connectors
- Operation Modes : Pure AP Mode , Pure WDS Mode ,Client Bridge + Universal Repeater Mode and WISP/CPE + Repeater AP Mode
- Supports a passive PoE input design
- Wide Voltage range PoE support (12-68VDC)
- Support Power over Ethernet (PoE) & PoE Bridge by LAN Port function.
- Weather-proof Housing (IP68 Approved)
- Includes two weather-proof RJ-45 Connectors
- Built-in Cerio CenOS3.0 software core allows for communicating with Cerio Wireless Management Software (CWMS) of network management servers.
- 8 Multiple-ESSID and supports the IAPP wireless network roaming function Supports x7 WDS Links over the 5GHz band
- Built-in Lightning Arrester (15kV ESD)
- Support Over load current protection for the board design. and 3 LEDs Wireless Signal Strength

Software Features

- Operation Modes : Pure AP Mode , Pure WDS Mode , Client Bridge + Universal Repeater Mode and WISP/CPE + Repeater AP Mode
- Maximum Security with 802.1x, WPA, and WPA2
- Supports wireless IGMP the v1/v2/v3 function, may pass on in the wire the immediate video and music wrapped gift
- 8 Multiple-ESSID and supports the IAPP wireless network roaming function
- Supports RIP and the OSPF route function (Dynamic Routing)
- Support Static Routing and RIP and OSPF Dynamic Routing by CPE mode
- Layer-7 Protocol Filter and Content Filter by CPE mode
- QoS(Quality of Service) for bandwidth management and traffic prioritization
- Support IEEE802.1d Spanning Tree
- Ping Watchdog function support
- Software UI support Auto reboot setting, can by Hour/Daily/Weekly to setting software Auto reboot
- Built-in Cerio CenOS3.0 software interface allows for communicating with Cerio Wireless Management Software (CWMS) of network management servers
- Support Web management and SNMP MIB-II and CLI via Telnet and the SSH interface management
- Provide Traffic Monitor and Graphical GUI Status Interface

Hardware Features

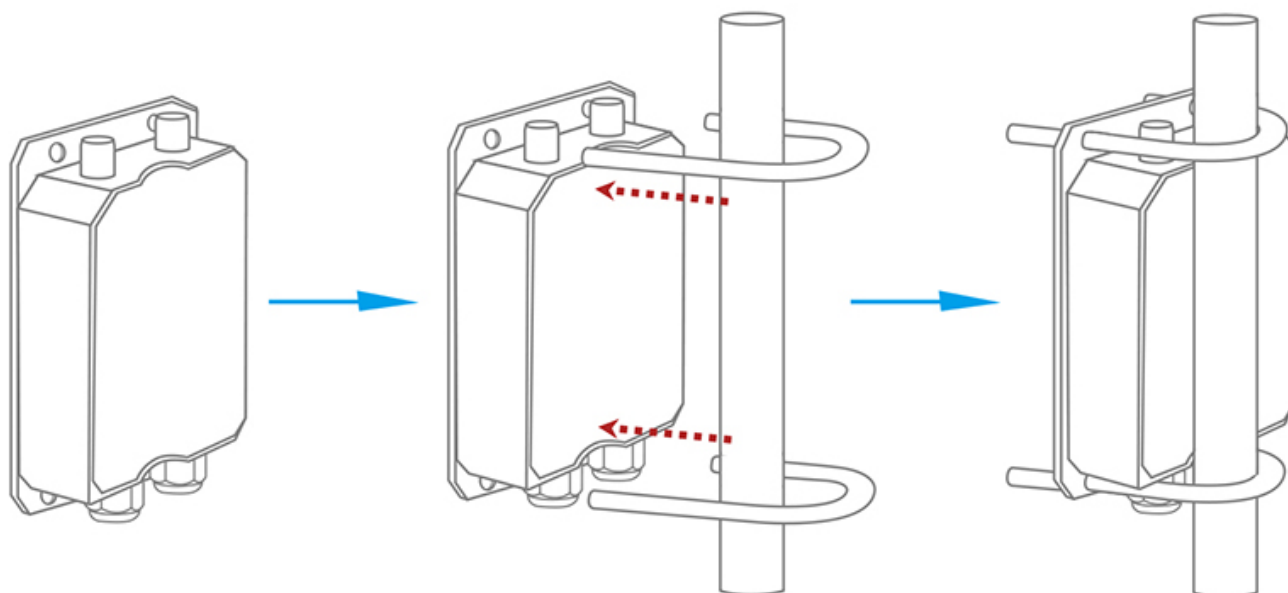
- IEEE 802.11n Compliance in 2Tx / 2Rx Design
- Enables Bandwidth of up to 300Mbps(Tx), 300Mbps(Rx) link rate
- Support IEEE 802.11n and 802.11a, Operates in the 5GHz ISM Band
- **500mW** eXtreme High Power at 5Ghz
- **OW-215N2-X**: Supports a built in +15dBi , 5GHz (H65, E35) Directional Panel Antenna
- **OW-200N2-X**: Supports 2 external 5GHz N-Type Antenna Connectors
- Weather-proof Housing (IP67/IP68 Approved)
- Weather-Proof M-13 RJ45 Connector
- Supports a passive PoE input design
- Support Power over Ethernet (PoE) & PoE Bridge by LAN Port function.
- Wide Range Voltage Input PoE Power support (12-68VDC)
- Integrates a long-range power amplifier and high sensitivity receiver to deliver unmatched reliability and performance at large coverage application
- Built-in lightning arrester (15kV ESD)
- Support Hardware chipset base Watch Time Dog , The OS will be reboot by automatically before crash
- Topology : Point to Point , Point to Multi Point
- Support Over load current protection for the board design and 3 LEDs Wireless Signal Strength

Hardware Overview

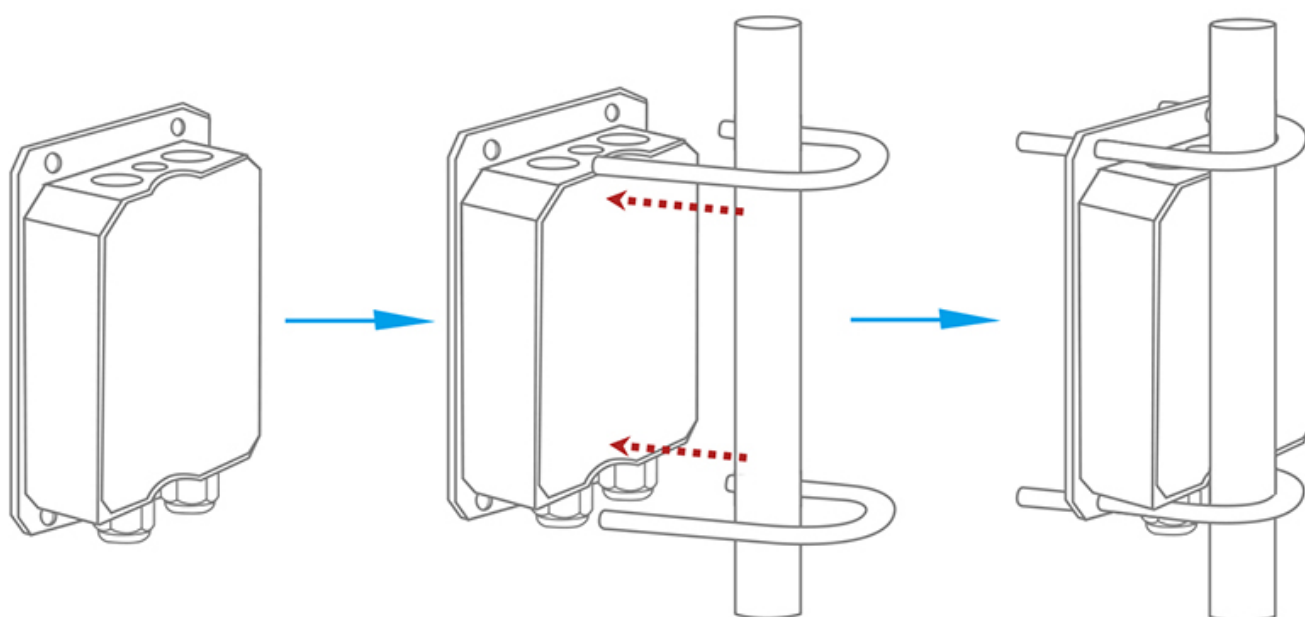


Mounting Installation

OW-200N2-X Pole Mounting Installation



OW-215N2-X Pole Mounting Installation



Software

Application Software

Cerio CenOS 3.0 Software Core

Standards & Hardware Specifications

Network Standards Conformance

IEEE 802.11 a/n compliant

IEEE 802.3 / IEEE 802.3u

IEEE 802.11a/n compliant

IEEE802.11f IAPP (Inter Access Point Protocol), hand over users to another AP

IEEE 802.11i Preauth (PMKSA Cache)

IEEE 802.11h -Transmission Power Control

IEEE 802.11d -Multi country roaming

Ethernet Configuration

Die Case Housing Weatherproof Protection Ethernet Connector x 2 (Power over Ethernet PoE in and PoE Bridge Port)

LED Indicators

ETH1 LED	x1
ETH2 LED	x1
PWR LED	x1
LEDs Wireless Signal Strength (only for Client signal bridge)	x3

Wireless Specifications

Data Transfer Rate

IEEE802.11a :6/ 9/ 12/ 18/ 24/ 36/ 48/ 54Mbps (auto sensing)

IEEE801.11n: 300Mbps (Tx), 300Mbps (Rx)

Frequency Range

IEEE802.11a :

5.150 – 5.350 & 5.725 – 5.825 GHz(USA)

4.900 – 5.250 GHz(Japan)

5.150 – 5.350 & 5.470 – 5.725GHz (Europe ETSI)

IEEE802.11n :

5.150 – 5.350 & 5.725 – 5.825 GHz(USA)

4.900 – 5.250 GHz(Japan)

5.150 – 5.350 & 5.470 – 5.725GHz (Europe ETSI)

Channel Spacing

IEEE802.11a : 20MHz , **IEEE802.11n** : 20/40MHz

Media Access Protocol

CSMA / CA with ACK

Modulation Method

IEEE 802.11a : OFDM with BPSK, QPSK, QAM and 64QAM

IEEE 802.11n : BPSK, QPSK, 16-QAM, 64-QAM

Operating Channels

IEEE 802.11a :

US : 12 (CH: 36, 40, 44, 48, 52, 56, 60, 64, 149, 153, 157, 161)

Japan : 4 (CH: 34, 38, 42, 46)

ETSI : 19 (CH: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140)

IEEE 802.11n @ 5GHz :

US : 12 (CH: 36, 40, 44, 48, 52, 56, 60, 64, 149, 153, 157, 161)

Japan : 4 (CH: 34, 38, 42, 46)

ETSI : 19 (CH: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140)

Transmit Power Variation

Max : 27dBm

Receiver Sensitivity

Max : -97dBm

Environmental & Mechanical Characteristics

Operating Temperature

-25 °C ~ 70 °C

Storage Temperature

-30 °C ~ 80 °C

Operating Humidity

100% Non-Condensing

Storage Humidity

100% Non-Condensing

Antenna

OW-215N2-X: +15dBi Dual Polarization Directional Antenna (H : 65 , E : 35)

OW-200N2-X: 2x2 5GHz N-Type Connectors

Form Factor

Supports Wall and Pole Mounting

Die-Cast aluminum Enclosure with IP67/IP68 Rating

System Power Consumption

9Watt (Max)

Power Supply

Fast Ethernet PoE Injector , Support Power Over Ethernet (48V) input (PoE Power Injector)

AC Input : 110-220V

Input Power

12~68 Voltage Wide Range PoE in

Dimensions (W x H x D)

OW-215N2-X : 102 x 162 x 58 mm

OW-200N2-X : 96 x 157 x 45 mm

Package Contents

Unit Weight
OW-215N2-X : 645g
OW-200N2-X : 760g
Certifications
CE, FCC, NCC, ROHS compliant

Contents	
OW-215N2-X or OW-200N2-X Main Unit	x1
POE Power Injector kit (Power Supply)	x1
Wall/Pole Mounting Bracket Kit	x1
CD Manual	x1
Warranty Card	x1