Introduction to OW-300N2 & OW-300N2-A2





eXtreme Power 11n 2.4GHz 2x2 Outdoor Access Point (1000mW)

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Our **CERIO OW-300 Series** includes two outdoor access point models that both operate on the 2.4GHz frequency.

OW-300N2 is our standard AP model, and utilizes external N-type antennas and a weatherproof housing to make it the ideal product for outdoor deployment.

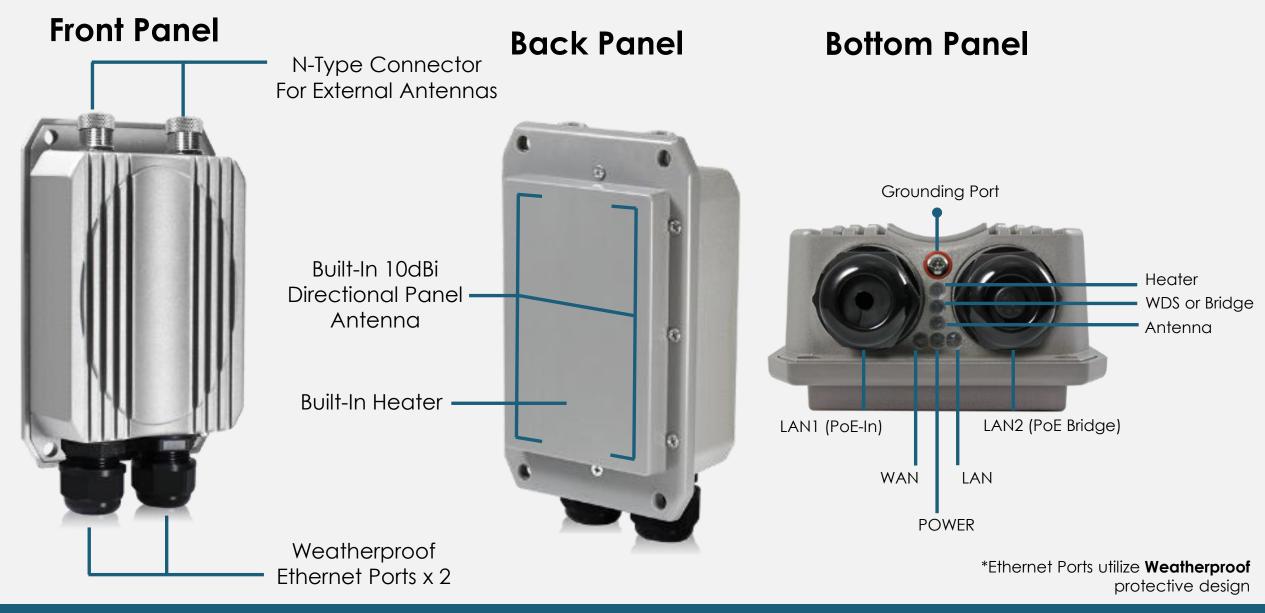
OW-300N2-A2 is our high end model, and boasts additional features to make it a more durable and versatile option. **OW-300N2-A2** includes both built-in and external antennas, making it a more flexible product. It also includes an built-in heater which is ideal device for cold weather deployment.

OW-300N2-A2

Product Comparison —— CERIO

Model	OW-300N2	OW-300N2-A2
Features		
Transmit Power	30± 2 dBm (1000mW)	30± 2 dBm (1000mW)
Max Data Rate	2.4GHz 300Mbps (2x2)	2.4GHz 300Mbps (2x2)
CenOS Firmware Version	CenOS 3.0	CenOS3.0
External Antennas	2 N-Type Connectors	2 N-Type Connectors
Internal Antennas	N/A	2x2 Built-In 10dBi Directional Panel Antenna (H110, E60)
Antenna Selection in Software UI	N/A	Yes
Built-In Heater with temperature sensor	N/A	Yes
Die-Cast Aluminum Weatherproof Housing	IP67/IP68	IP67/IP68
Overload Current Protection and Built-in Lightning Arrester	Yes	Yes
PoE Bridge Function	Yes	Yes
Mounting Support	Pole / Wall	Pole / Wall

CenOS 3.0 OW-300N2-A2 Overview CERIO



OW-300N2-A2 Features — CERIO









OW-300N2-A2 incorporates a built-in heater with smart sensory control that automatically turns on when device PCB temperatures drop below 0°C. This makes OW-300N2-A2 perfect for cold weather deployment.

OW-300N2-A2 utilizes a 10dBi built-in panel antenna and also 2 eternal N-Type antenna connectors. Users have the option of choosing which design to use. (Users cannot operate built-in and external antennas simultaneously)

OW-300N2-A2 supports passive Power over Ethernet in to conveniently power the device through CAT5 cabling.



OW-300N2-A2 utilizes IP67/IP68 approved weatherproof aluminum die-cast housing for quality device protection and durability.

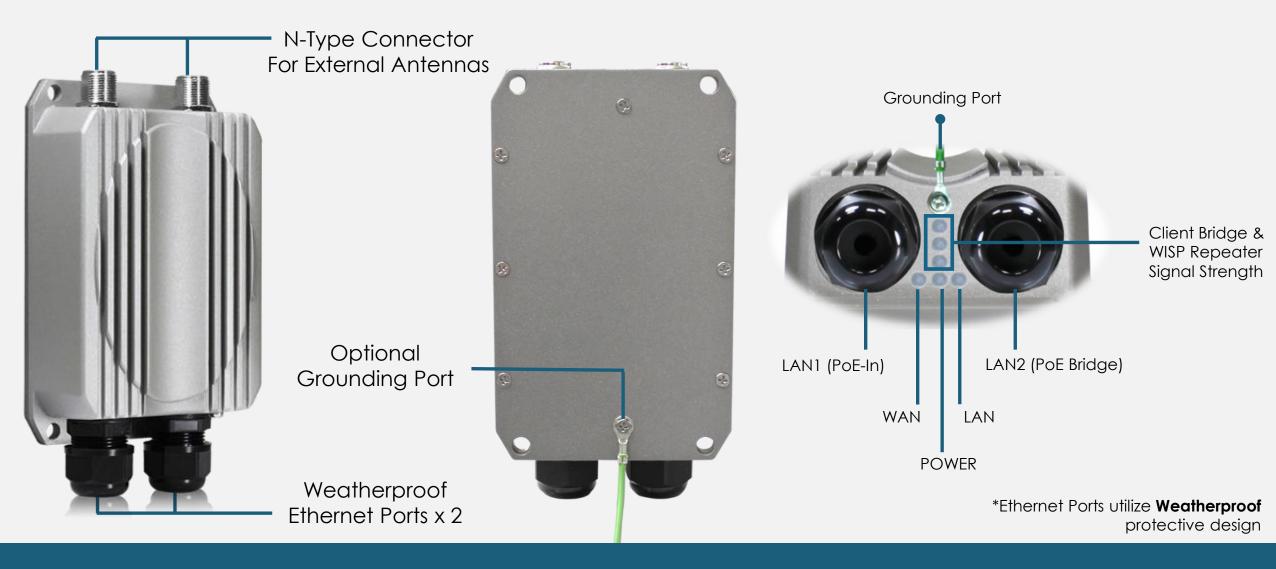
— OW-300N2 Overview — CERIO

Back Panel

CenOS 3.0

Front Panel

Bottom Panel





-OW-300N2 Features —— CERIO





OW-300N2 is a cost effective outdoor solution for the 2.4GHz band. Because of reduced hardware features, this device is offered at a lower price point compared to our high featured OW-300N2-A2.



OW-300N2 support passive Power over Ethernet in to conveniently power the device through CAT5 cabling.

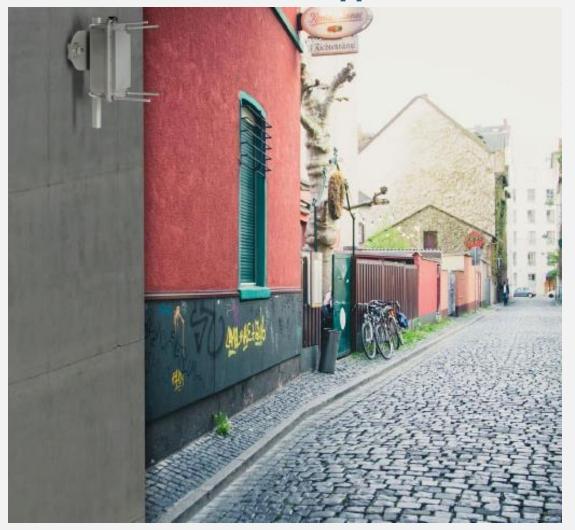


OW-300N2 utilizes IP67/IP68 approved weatherproof aluminum die-cast housing for quality device protection and durability.



-Versatile Mounting-----CERiO

Wall Mount Supported



Pole Mount Supported



-Advanced Features ----- CERiO

- > 5 Operation Modes : Router+AP Mode, AP Mode, WDS Mode, Client Bridge + Repeater
 - AP Mode and WISP Repeater + AP Mode
- > 1000mW at 2.4Ghz Output High Power
- Supports 8 Multiple-BSSID and IEEE802.1d Spanning Tree
- > Supports Static Routing and RIP and OSPF Dynamic Routing through CPE mode.
- > QoS(Quality of Service) for **bandwidth management** and traffic prioritization
- Supports IGMP v1/v2/v3 snooping, Web management and SNMP MIB-II
- Software interface allows for communicating with CWMS Software and CERIO AM-Series AP Management WLAN Switch or Access Controller of network management servers.

——AP Station Deployment —— CERio



CenOS 3.0

OW-300N2-A2 and OW-300N2

operate on the 2.4GHz frequency band, and are perfect for AP station deployment

CERIO's OW-300 series utilizes weather proof die-cast housing, making it a reliable device for outdoor deployment.

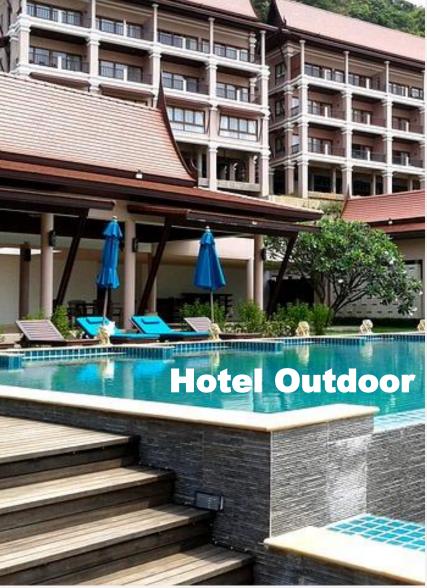
Users can deploy OW-300 series as an **Access Point Station** in:

- Public Spaces- Parks, Pools, etc.
- Schools and Universities
- Company campuses
- Businesses/Restaurants with outdoor seating

-Ideal Deployment —— CERIO







Bridge & Mesh



Wireless Bridge

CERIO's OW-300N2/OW-300N2-A2 outdoor access points support built-in network bridging capabilities, connecting wired devices to a wireless network.

CERÍO

Spanning Tree Protocol

The Spanning Tree Network Protocol ensures loop free topology. This effectively blocks any bridge loops in the networking infrastructure. This guarantees that there is only one possible active path between two network devices.

-Proven Signal Links----- CERIO

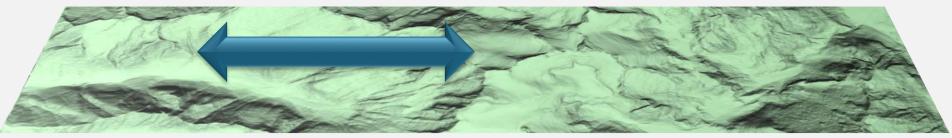
10+ Kilometers

Tested connection distances using **OW-300N2** and **OW-300N2-A2** with external antennas



Tested connection distances using **OW-300N2-A2** with built-in 10dBi directional panel antenna.

3.7+ Kilometers



-AP Management ——

OW-300N2/OW-300N2-A2 support management by CERIO Wireless Management Software and AMR-3204G hardware AP controller. This provides centralized and convenient control of a wireless network.

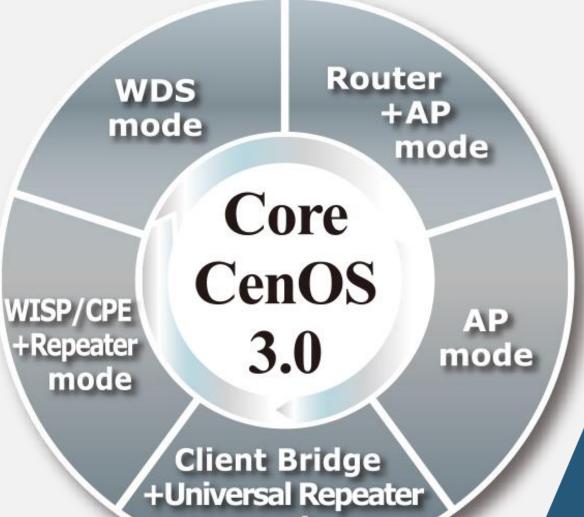
CERIO Wireless Management Software



AMR-3204G Access Point Controller

CERÍO





CenOS 3.0 Software Overview

mode

- Operation Modes —— CERIO

Cerio's OW-300N2 and OW-300N2-A2 support **5 Operation Modes**. The default operation mode for this device is Pure AP Mode.

CERIO	OW-300N2 / CenOS 3.0
System 🔻 Wireless 🔻 Advance 🕶 Utilities 💌 Status 🕶	
Operating Mode	
Operating Mode	
AP Mode	
WDS Mode	
ClientBridge+Repeater AP Mode	
Router AP Mode	
WISP+Repeater AP Mode	
Save&Reboot	

-SSIDs &VLAN Tagging ---- CERIO

VAP I	ist	
VAP	MAC Address	ESSID
VAP0	00:11:A3:1C:07:D0	AP00
VAP1		AP01
VAP2		AP02
VAP3		AP03
VAP4		AP04
VAP5		AP05
VAP6		AP06
VAP7		AP07

Cerio's CenOS 3.0 Software allows each OW-300N2/OW-300N2-A2 device to broadcast 8 SSIDs. Each SSID can be configured to a specified SSID by the network administrator. This is known as VLAN tagging.

VLAN tagging effectively marks packets with a VLAN ID to properly determine which VLAN the packet belongs to. This allows users to deploy multiple VLANs (Guest/VIP) on a port, and distinguish which network each packet belongs to.

Virtual AP Setup

ÍO

Create and manage up to **8 ESSIDs** to segment you network. This allows administrators to **separate traffic** within VLANs, allowing for more organized network construction.

System 🔻 Wireless 🔻 Advan	ce 🔻 Utilities 🔻	Status 🔻	
VAP0 Setup			
Security			
ESSID:	AP00		
Hidden SSID:	Enable	Disable	
Client Isolation:	Enable	Disable	
IAPP:	Enable	Disable	
Maximum Clients:	32		
VLAN ID(Tag):	LAN VLAN ID	:	
Security Type:	Disable	*	

Quality of Service ------ CER

System 👻 W	ireless 👻 Advan	ce 👻 Utilities 👻	Status 👻	
oS Setup				
Denskuidt	h Carataal			
Bandwidt				
	Service:	Enable	Disable	
	Mode:	Total Bandwidth	Per Rule Bandwidt	th
	Upload:	kbps		
	Download:	kbps		
		Save	Clear	
Per Rule				
	Comment			
	Туре:	IP Address 🔻		
	IP:			
	Upload:	kbps		
	Download:	kbps		
		_		
		Save	Clear	
QoS List-				
#	Comment	Rule	Bandwidth(U/D)	Action
		No items i	n the list!	

Quality of Service (QoS) allows for bandwidth control which permits Administrators to allocate bandwidth to parties as they see fit.

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QoS also allows for Rule setting customization, where admins can enact QoS Rules to specific individual IP Addresses, Segments, MAC addressed, and even Ports.

<u>Ce</u>nOS 3.0

Time Policy Function —— CERIO

Wi-Fi RF Signal on/ off By scheduling control				s	ave Clea				
ime Policy Setup	Sun J						_		1
Policy: Policy 3	Mon Tue								
Schedule Rule: On Schedule Out of Schedule Save Action	Wed Thu								
Time Schedule	Fri						إسعا		
Day of Week: 🗹 Sun 🗖 Mon 🗹 Tue 🗖 Wed 🗹 Thu 🔲 Fri 🗹 Sat	0	2 4	68	10 1	2 14	16	18 20	22 2	
Start From: 00 : 00	Time	Schedule	List						
End At: 20 : 00	#	_	Week	_	_	Ti	ime	Acti	ons
Save Clear	1 S	un Mon	Tue Wed	Thu	Fri Sat	00:00	- 20:00	Delete	Edit

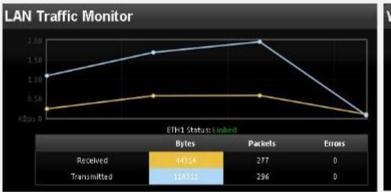
OW-300N2/OW-300N2-A2's CenOS 3.0 Time Policy function allows **for management of usage time** within a network. CenOS 3.0's interface allows for simple configuration of Day/Time restrictions that administrators can place on users within the network.

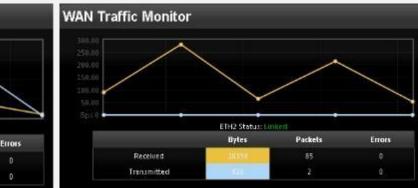
-Auto Reboot Function —— CERIO

Administrators can activate the CenOS 3.0 Auto Reboot function which effectively reboots the network system routinely based on admin settings. This enables better system reliably and a lower likelihood of crashes. It also reduces the need for constant on-site system maintenance in case of system crashes. This setting is ideal for Hotel deployment.

Ping Watchdog	
Service: 🔍 Enab	ole 🔍 Disable
IP Address To Ping:	
Ping Interval: 300	Seconds
Startup Delay: 300	Seconds
Failure Count To Reboot: 3	
Auto Reboot	
Type: Weekly	▼ Sunday ▼
Time: 3 🔻 :	30 🔻
	Save

-Traffic Monitoring —— CERIO





 Wireless Traffic Monitor vanue
 vanue

CenOS 3.0 provides a Traffic Monitor and Graphical User Interface for Network and Radio Overview

This allows administrators to monitor network statuses and ensure operations are all functioning correctly.

What we do

Innovation & Design

Our R&D team continues to incorporate the newest wireless protocols and features to make our products perfect for enterprise deployment.



Wireless Solutions

Our Field Application Engineers and Specialists have unparalleled experience providing the perfect solution for any wireless projects (e.g. Hotels, Long Distance PTP Backhaul, Universities)

www.cerio.com.tw



Software Development & Design

Our software provides a high featured and easily operated User Interface and also supports centralized AP Management for convenient device deployment.



Outstanding Customer Service CERIO's customer service staff are experts on our products and possess clear and patient communication skills.

Contact Information



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