

eXtreme Power 11n 2.4GHz 2x2 Wall Plate PoE Access Point (500mW)

EXTREME

CERIO

CERIO

CenOS 5.0 Software Core

CenOS 5.0

Product Overview —



➢ 500mW at 2.4Ghz eXtreme High Power Access Point

CERÍO

- ➤ Supports 5 Operation Modes (CenOS 5.0)
- > 2x2 Built-in 2.4Ghz Smart Omni-Directional Antenna
- Three 10/100Mbps Fast Ethernet RJ45 Ports
- ➤ Two RJ-11 Phone Line Ports (In / Out)
- IEEE802.3af/at Power over Ethernet Support
- Integrated USB Port for mobile device charging
- Integrates a long-range power amplifier and high sensitivity receiver to deliver unmatched reliability and performance at large coverage application

Includes two Faceplates for US / EU Mounting standards

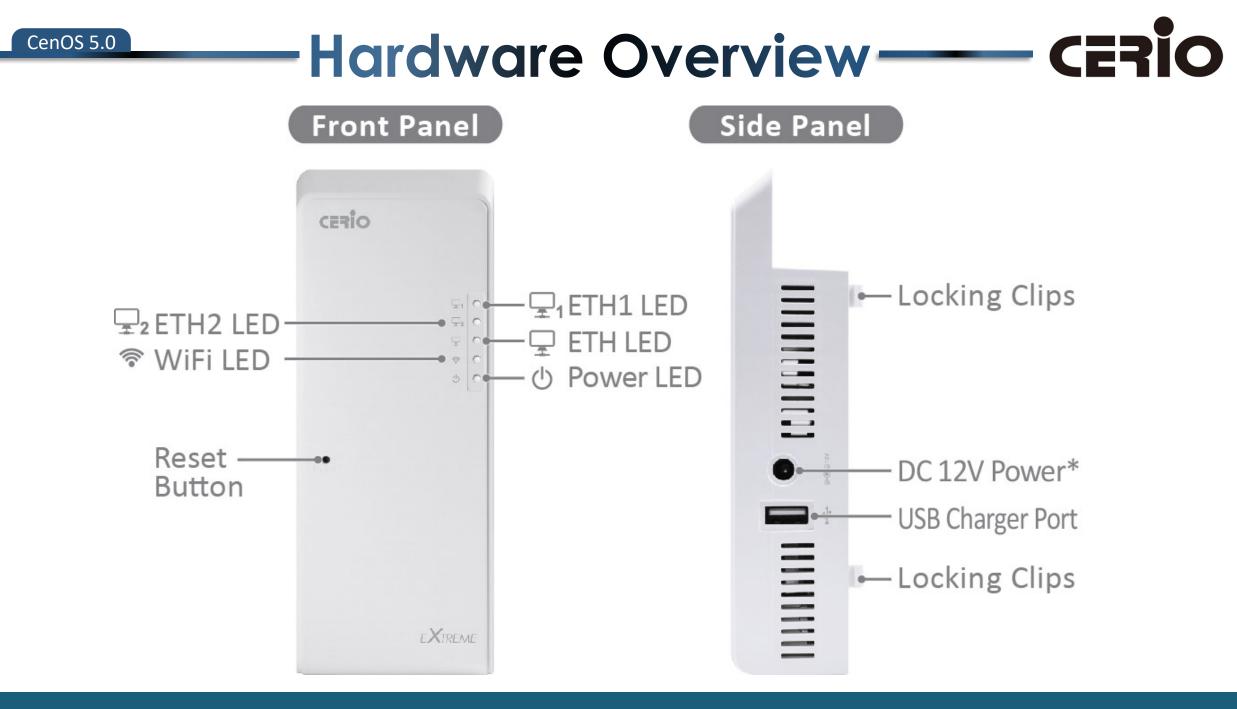
Advanced Features —— CER

Supports 802.11n/11g/11b wireless standards

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- Operation modes include: Router Mode, AP with WDS Mode, Control Access Point Mode, Client Bridge Mode, and WISP Mode
- > Can broadcast up to 8 SSIDs, all of which support VLAN tagging
- Control Access Point mode can centrally manage up to 16 AP devices without the need for an additional AP Controller
- Supports Captive Portal Authentication for easy client login
- Supports OAuth2.0 for user login through Facebook/Google+
- Integrates 802.11r/k Fast Roaming Protocol
- Supports PoE Bridge Function (Pass-through)
- LED Control Supported for hotel installation





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Hardware Overview — CERIO



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Top Panel

- ි RJ11 Phone Line-In Port
- 🖵 RJ45 LAN Port (PoE In)

Bottom Panel

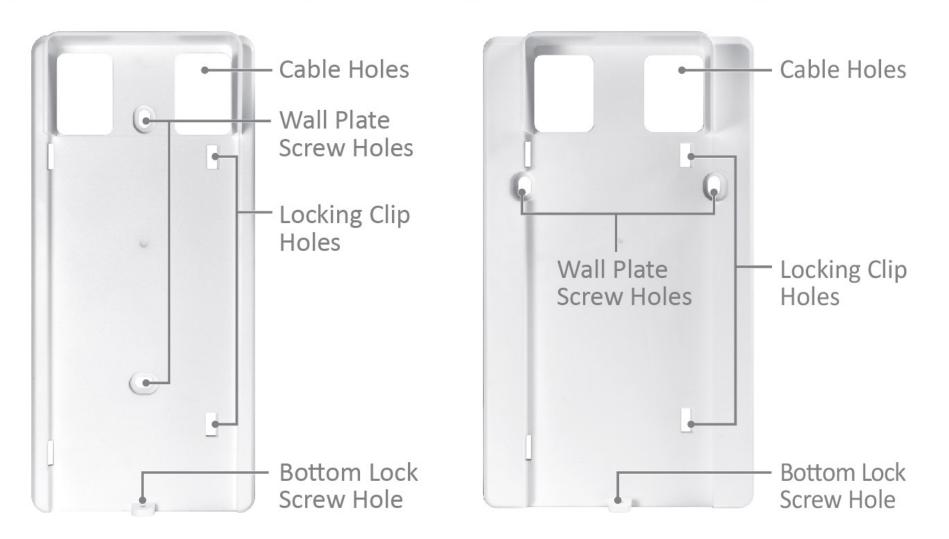
[☎] RJ11 Phone Line-Out Port
 [┳]2 RJ45 LAN2 Port (PoE Bridge)
 [┳]1 RJ45 LAN1 Port



Bracket Overview



U.S.A / Japan Type



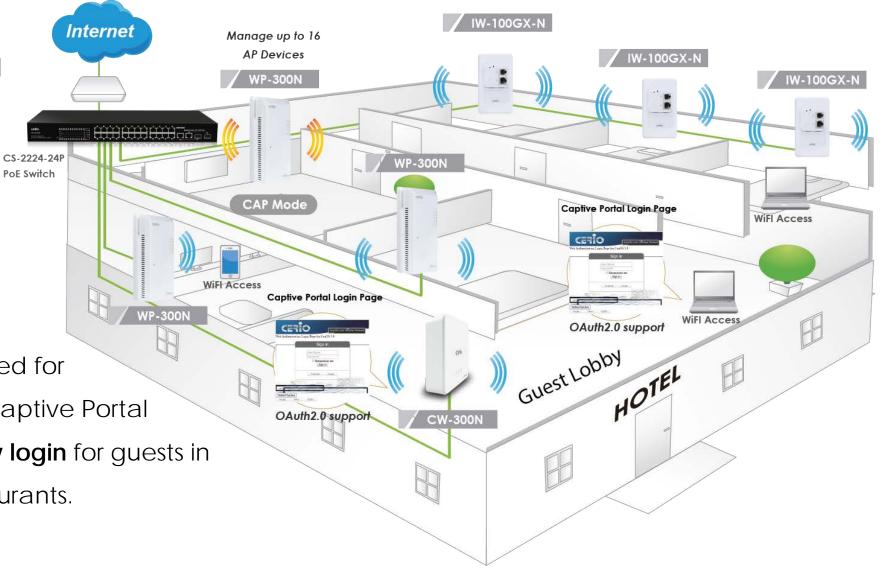
Europe / China Type

Hotel Deployment —

WP-300N's high feature and wall-plate design makes it the perfect device for hotel deployment.

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CAP mode provides **AP management** without the need for additional hardware, while Captive Portal Authentication provides **easy login** for guests in the hotel lobby or hotel restaurants.

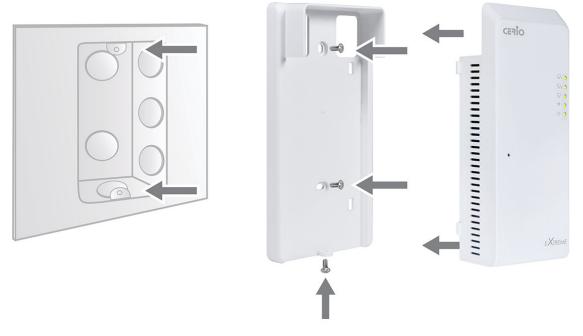


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- Mounting Design —— CERIO

WP-300N can be easily integrated onto any flat surface, and is compatible with both types of outlet boxes (U.S & E.U) using the provided Wall Plate Brackets.

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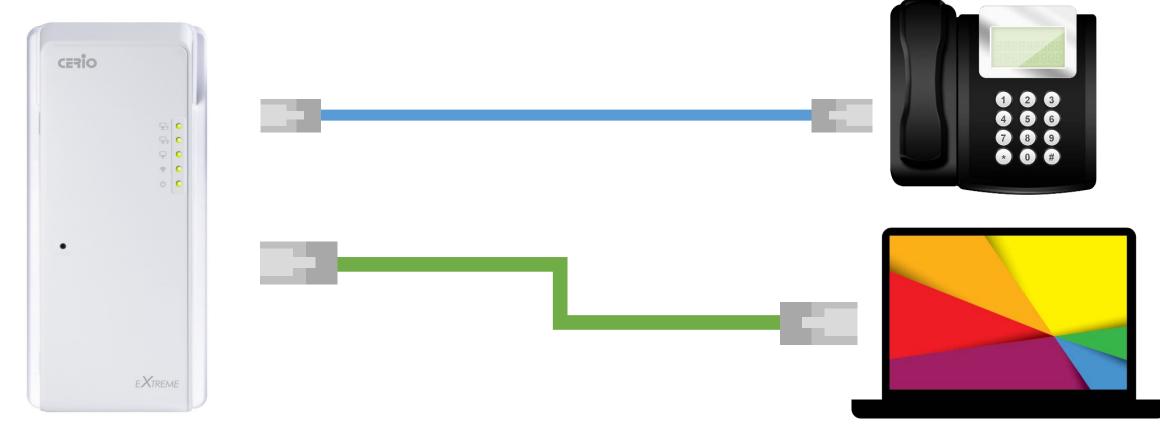




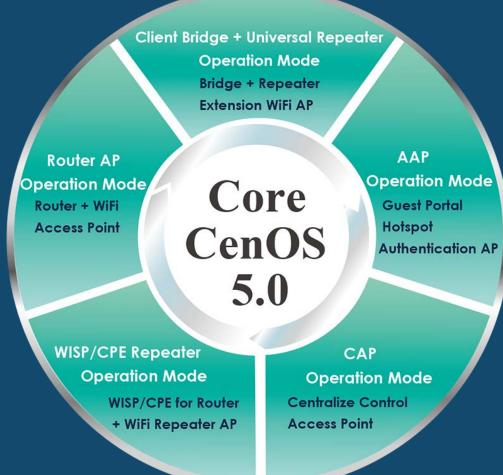


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WP-300N includes two RJ11 ports for Phone Line and three RJ45 Ports for PoE-IN, PoE Bridge (Pass-through), and Ethernet connections. This hardware design makes this wall plate access point perfect for environments such as hotels and luxury homes.



Software Overview



Only Cerio's special model supports CAP / Router mode

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Captive Portal Authentication

Captive Portal Authentication conveniently allows wireless clients

to access the network through a customized web login portal



Administrators can deploy a customized Captive Portal with the following login methods **Guest Login** Local Account Login 2. OAuth2.0 Login (Facebook/Google/etc.)

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Integrated AP Management

AP Management

Login

Login

Y Login Centralized AP Management

AP Controller

Fast and Convenient Client Login

Login

Captive Portal Authentication

Login

Login

Operation Modes-

WP-300N supports five different Operation Modes: Control Access Point, Access Point Mode with WDS, Client Bridge + Repeater Mode, WISP/CPE Repeater AP Mode, and Router Mode

CERIO CenOS 5.0	😭 Syste	em	🚽 🎤 Utility 🚽	💵 Status 👻
System Mode				
∎ System Mode				
Mode	CAP Mode Access Point Mode ClientBridge Mode WISP Mode Router Mode			
Save & Reboot			Cancel	

Notice: Router Mode does NOT support Client Authentication

-Control Access Point — CERIO

Control Access Point (CAP) Mode's converts the device into a centralized AP management controller. When WP-300N is in CAP Mode, it can centrally manage up to **16 AP devices**.

cerio		🕷 Syste	m 👻	🛔 AP Control 🚽	🖋 Utility 🚽 🖬 Status 🚽	
Overview			Sca	n Device		
			Bate	ch Setup		
I Overview		 Information	AP	Setup		٦
Mode	CAP Mode			up Setup	Memory	
System Name	Cerio's CenOS5.0 Core			o Setup hentication Profile	76	
System Time	2015/01/01 08:02:42				0 100	
Svetom Untimo	01:44		Stat	us		

- Scan and Import —

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Scan AP Device					
Filter Device			🖬 Update IP Address & Netmask		
VLAN#	VLAN 0 (192.168.2.0/24)	~	Control Port	VLAN 0 (192.168.2.0/24)	~
Default Password	•••••		VLAN TAG	1-4096	
Sort	IP Address	Scan	IP Address	192.168.2.10	
			Netmask	255.255.255.0	Apply&Reboot
				n	

CAP Mode allows administrators to scan for AP devices within their virtual LAN and import them into the management database. Once imported, administrators can make quick changes such as changing IP addresses for organization and easy management

VLAN List VLAN 0 (192.168.2.0/24) \sim VLAN test \sim Group VLAN Setup Batch Setup Authentication Profile Gateway & DNS Time Server Management Setup Wireless Basic Setup Device List Wireless Advanced Setup VAP Setup Upgrade Via TFTP Server Choice VLAN# Upgrade Via HTTP URL Reboot

Batch Setup

CAP Mode's control function supports centralized configuration of managed APs. This allows administrators to make convenient batch changes to the network of AP devices from one centralized location. This main function of CAP mode can save time and cost by reducing servicing and installation time.

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Batch Setup

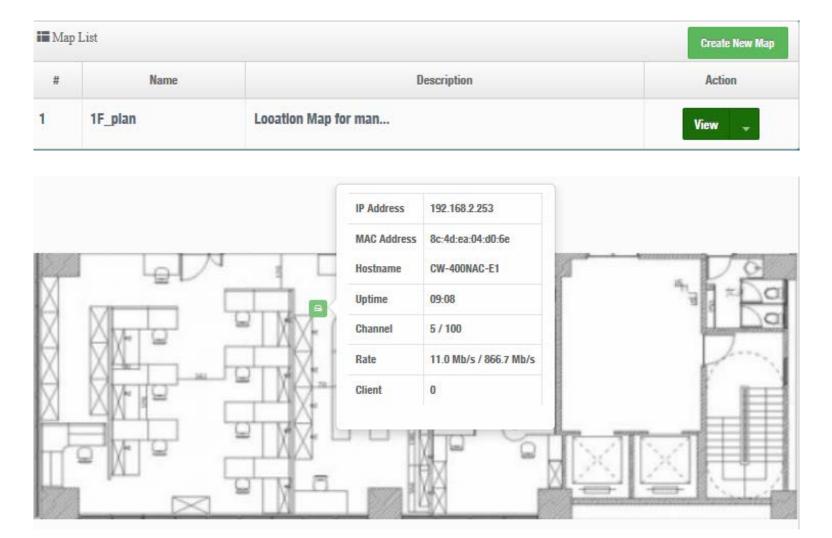
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ULAN Setup			Apply	📰 IP Setup			
VLAN	VLAN 0		~		Apply	Enable	○ Disable
VLAN Mode	Enable	\bigcirc Disable			IP Mode	Enable	○ Disable
Access Point 0	Enable	\bigcirc Disable			IP Address	192.168.2.10	
802.1d Spanning Tree	Enable	○ Disable			Netmask	255.255.255.0	
Control Port	Enable	\bigcirc Disable					
IAPP	Access Point 1			ETH0 V	LAN Tag Setup		
					ETH0	Enable	○ Disable
					VLAN TAG	1-4096	
Control Port	Enable		Y	ETHO V	LAN Tag Setup ETH0	• Enable	O Disable

Administrators can enable VLAN Mode, Spanning tree, Control Port capabilities, IAPP Roaming, change IP settings and setup VLAN tag for batches of access points. These changes can be implemented differently for each VLAN, allowing for both centralized and organized control.

- Map Setup ——— CERIO

CAP Mode also supports Map Setup function for organizing your AP network. Administrators can create maps by uploading floor plan URLs and dragging APs to the correct location. Once complete, administrators can monitor AP statuses such as uptime, data rates, and connected clients

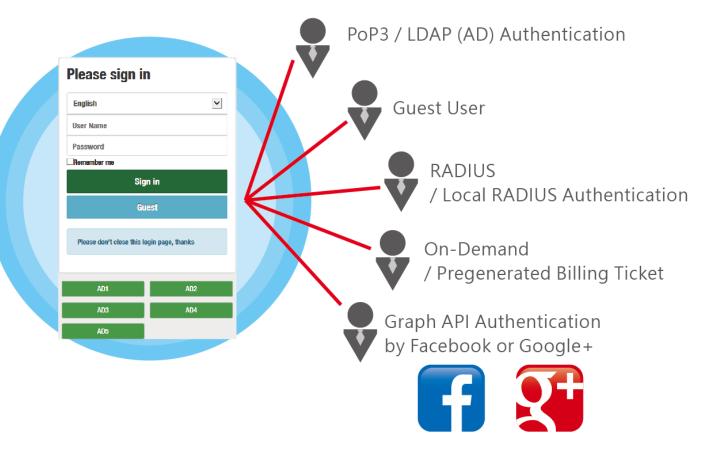


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Authentication AP —— CERIO

CenOS 5.0 supports Authentication Access Point Mode for versatile AP deployment. Administrators can choose from many authentication options to best suit their network needs.

This enables convenient access to the wireless network for public clients, as well as improved management and organization for network administrators



Notice: Router Mode does NOT support Client Authentication

OAuth2.0 Login

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CenOS 5.0 supports multiple methods of authentication for user management, security and convenience.

OAuth2.0 : Allows devices to use third-party credentials such as Facebook and Google+ for user authentication. This provides login convenience for public clients and also allows administrators to collect data through Facebook / Google analytics.

II OAut	h 2.0 Provider L	Create New Provider	
#	Active	Provider	Action
1	On	Google	Edit
2	On	Facebook	Edit

Authentication

Guest Login : Provides limited Wifi connection to clients to an open network. Limitations can be put in place to manage client limits, connection time, and control bandwidth

Local User: Provides fixed authentication user accounts for controlled client login and data management. Administrators can track Local Account usage, connection time, etc. CenOS 5.0 supports up to 10 Local User accounts

O Disable Enable Sevice One Time O Multiple Time Login Type 10 Count Limit 10 Login Time O Enable Disable QoS 512 Upload 512 Download

Guest



Minutes

Kbps

Kbps

Customized Login Page ---- CERIO

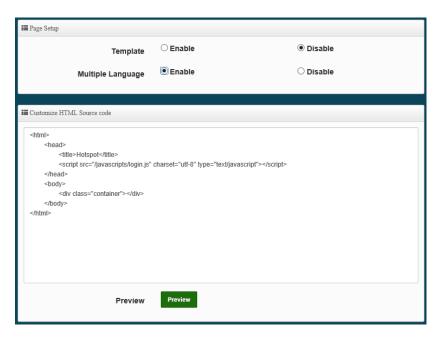
Administrators can create a customized Login Page which can become a platform for:

(1.) Promotions (2.) Brand Exposure (3.) Advertisements (4.) Platform for providing Information

This customized Captive Portal supports login through 1. Guest Users 2. Local Accounts

3. Facebook, Google+, etc using OAuth2.0.





Customized Login Page

Customize through HTML Code

- Bandwidth Control ----- CERIO

Bandwidth Control of connected clients allows administrators to control individual user upload and download speeds, as well as set a maximum limit on the total amount of bandwidth that can be used at a single time.

Bandwidth Control					
Peer Users Enable	Disable				
Upload 512	Kbp	s			
Download 512	Kbp	S			
Total 💿 Enable	Disable				
Upload 1024	Kbp	s			
Download 1024	Kbp	s			

Walled Garden

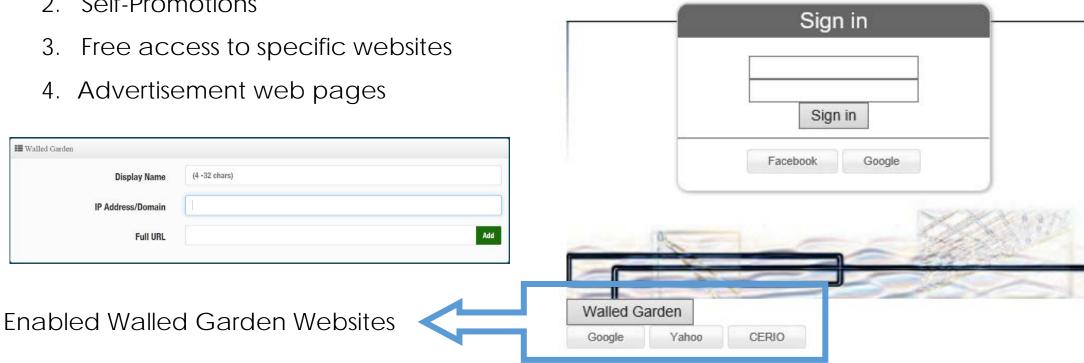
Walled Garden

Modes Walled Garden function allows administrators to create a browsing environment that controls user access and accessible information. This function is ideal for directing users to specific parts of the Web such as;

- Paid Content
- 2. Self-Promotions
- 3. Free access to specific websites
- 4. Advertisement web pages



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WP-300N's design supports a total of 8 Virtual LANs (VLAN) and 8 SSIDs.

VLAN Setup										
:= 1	≡ VLAN List									
#	VLAN Mode	Flag		IP Address	Netmask	Radio 0	Action			
0	On	Native ETH0 Native ETH1 Access Control		192.168.2.254	255.255.255.0	NGS_AP0	Network 🖕			
1	Off	ETH0.101 ETH1.101		-	-	NGS_AP1	Network _			
Supports 8 VLANs Each VLAN supports 1 SSIDs										
	-	ETH1 VLAN Tag Setup								
		ETH1	Enable		O Disable					
		ETH1 Tag	1-4096							

WP-300N supports up to 4096 Tags. This is a crucial feature that ensures successful directing of

packet traffic for VLANs that span across multiple switches.

WDS Support

☷ WDS Setup			
WDS	Setup	● Enable	○ Disable
Authentication		AES	
PassPhrase			
I WDS Client Setup			
Enable			MAC Address

WP-300N with CenOS 5.0 supports WDS Setup when operating in Access Point Mode

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WP-300N's Access Point mode supports up to 8 WDS links, and includes a WDS Status page to monitor the WDS connection strength.

(8x WDS on the 2.4GHz frequency band)

Fast Roaming



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■ 802.11r/802.11k Fast Roaming						
Fast Roaming	enable	O Disable				
Fast Roaming Settings						
Mobility Domain	a1b2					
R0 Key Lifetime	10000					
Reassoc deadline	1000					
R0/NAS Identifier	ap.example.com					
R1 Identifier	000102030405	Disable				
R1 Push	- Flighte	Disable				

802.11k- Smartly provides roaming client with information regarding nearby APs and their channels, which prepares the client for easier roaming.

802.11r- Stores encryption keys on all the APs within the network. This simplifies the authentication process when clients roam to new APs, greatly reducing CPU loading and latency.

CenOS 5.0

Additional Features — CERIO

ELED Control			
LED OFF	Enable	Disable	

Auto Reboot		
Туре	Disable	•
	Disable	
	Daily Week Month	

PoE Bridge				
	PoE Bridge	Enable	Disable	

LED Control- Allows the devices LED lights to be disabled to reduce blinking irritation in sensitive environments.

Auto Reboot- Setup device auto reboot schedule to reduce CPU overloading and device crashes.

PoE Bridge- Supply power to subsequent devices such as IP Cameras and Access Points through RJ45 cabling.

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)



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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