

**CERIO**

*Amplify your Wireless Network*

# Introduction to

**CERIO**

# WP-300N

With **CenOS 3.0** Software Bundle



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



- 500mW at 2.4Ghz Output eXtreme High Power
- Supports bandwidth of up to 300mbps
- Supports 5 Operation Modes (CenOS 3.0)
- 2x2 Built-in Smart Omni-Directional Antennas
- IEEE 802.3af/at Power over Ethernet
- Integrates a long-range power amplifier and high sensitivity receiver to deliver unmatched reliability and performance at large coverage application

# Wall Plate Design

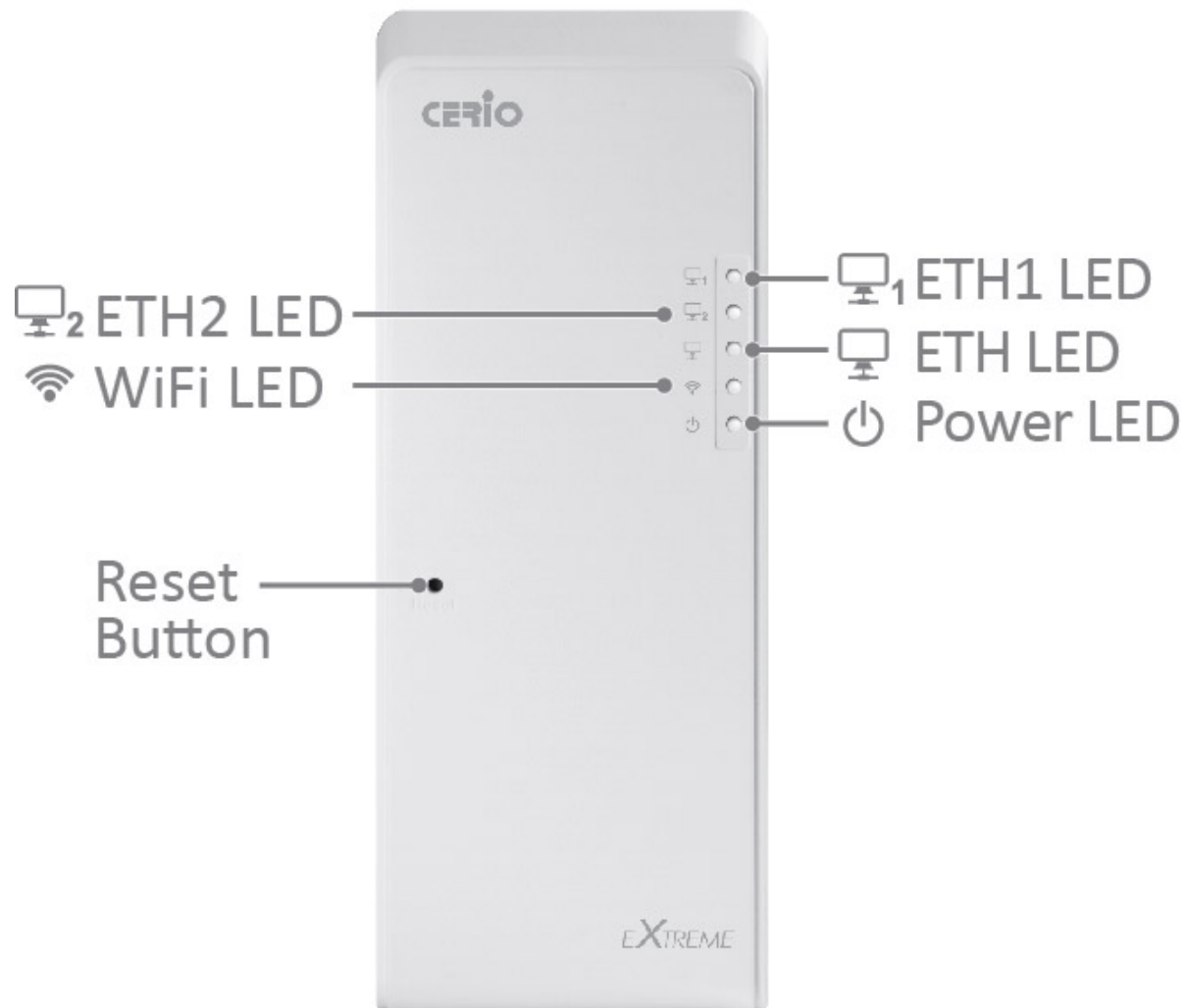


Cerio's WP-300N features a clean, elegant wall-plate design. The device's aesthetic appeal is sure to ensure easy deployment without creating eyesores.

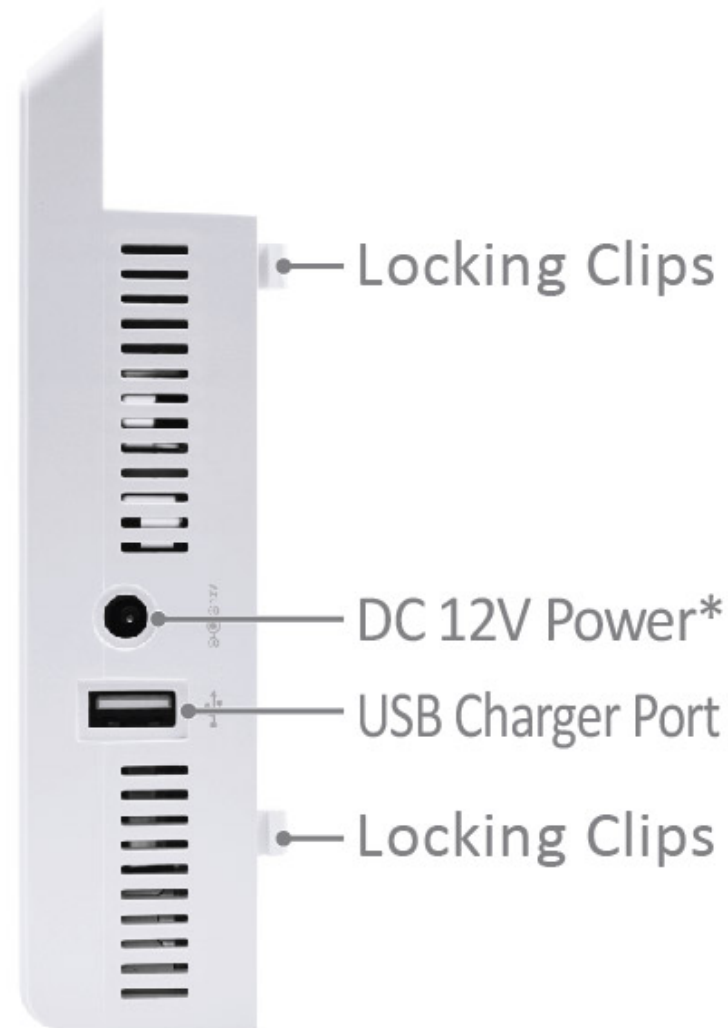
WP-300N's Wall Plate design also greatly reduces the chance of device theft. Once the Wall Plate is installed, the WP-300N device can be clipped safely and securely in place.

# Hardware Overview

## Front Panel



## Side Panel







## Top Panel

 RJ11 Phone Line-In Port

 RJ45 LAN Port (PoE In)



## Bottom Panel

 RJ11 Phone Line-Out Port

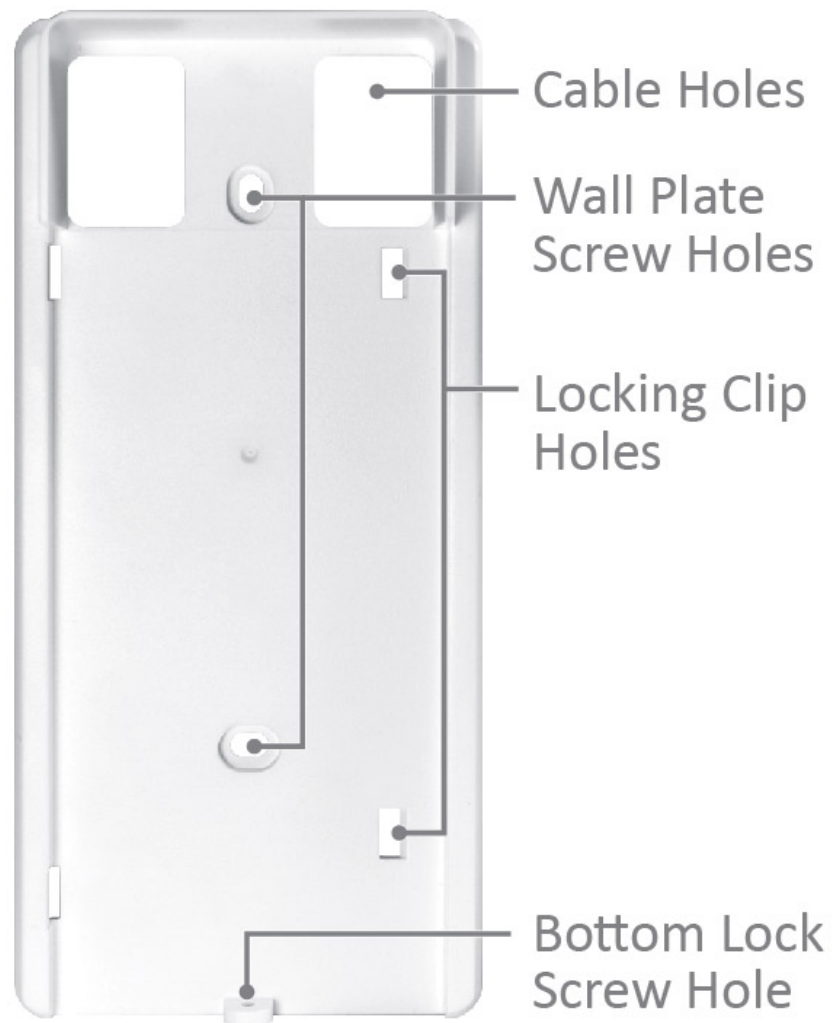
 RJ45 LAN2 Port (PoE Bridge)

 RJ45 LAN1 Port

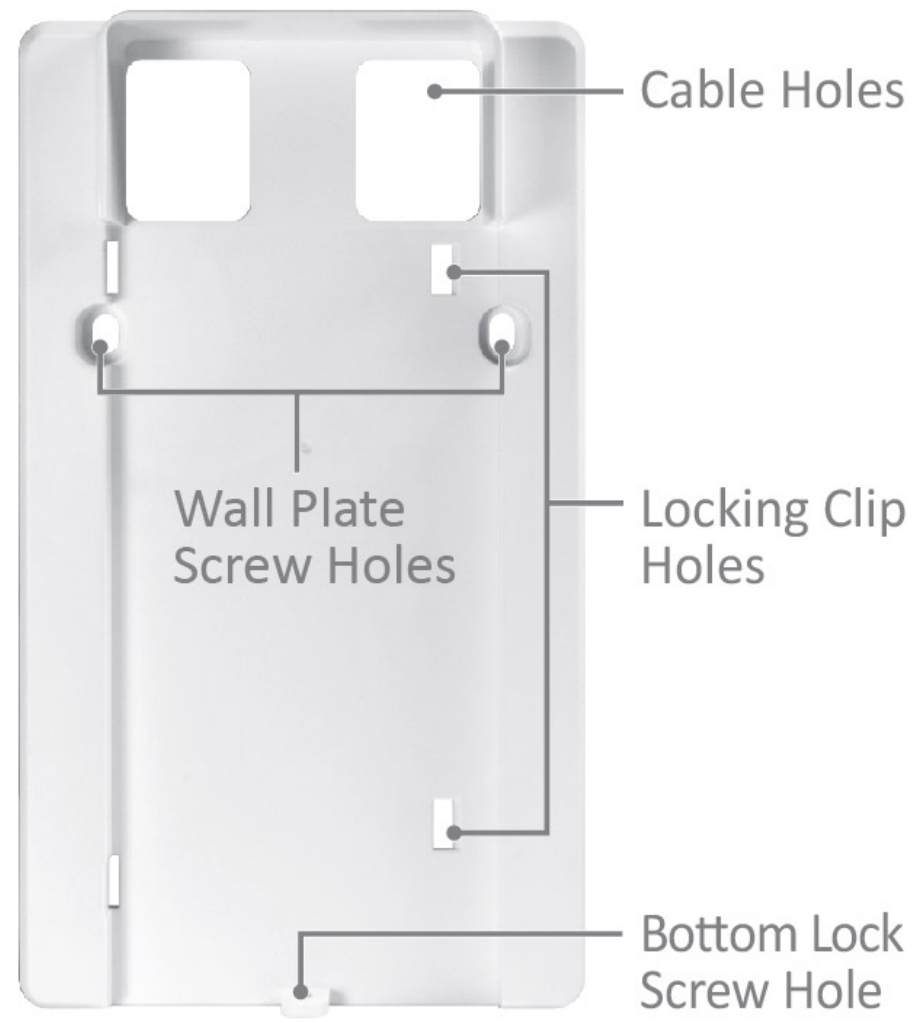


# Bracket Overview

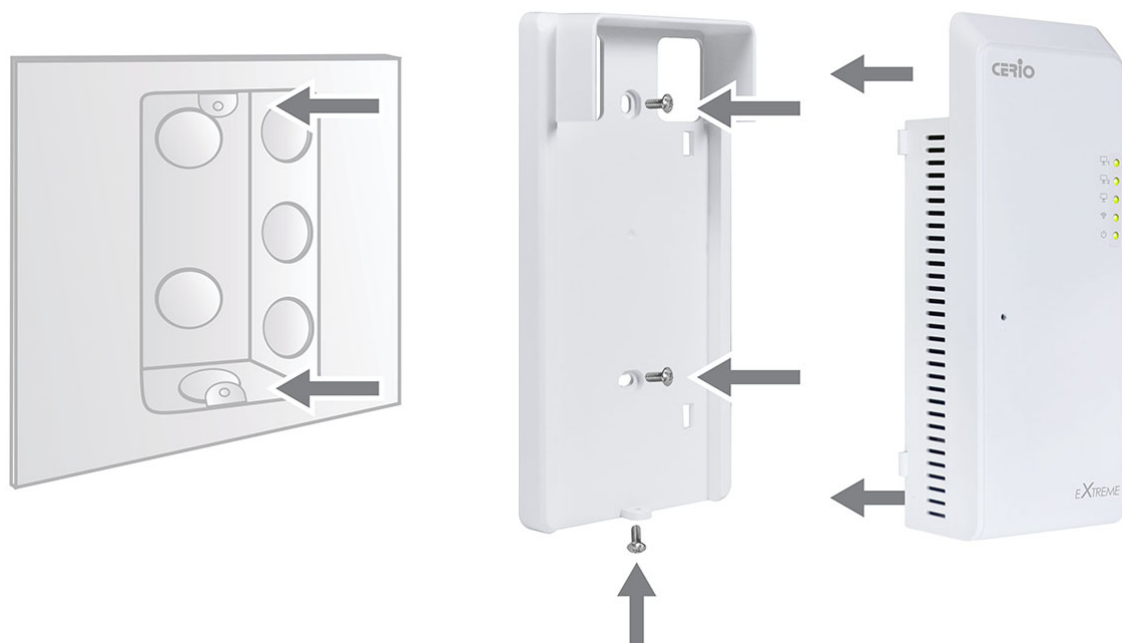
U.S.A / Japan Type



Europe / China Type



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



( U.S.A Type Wall Plate Bracket )





WP-300N supports DC 12V power supply for users who want the option of deploying WP-300N as a desktop device or for those who do not wish to feed cabling through the walls.



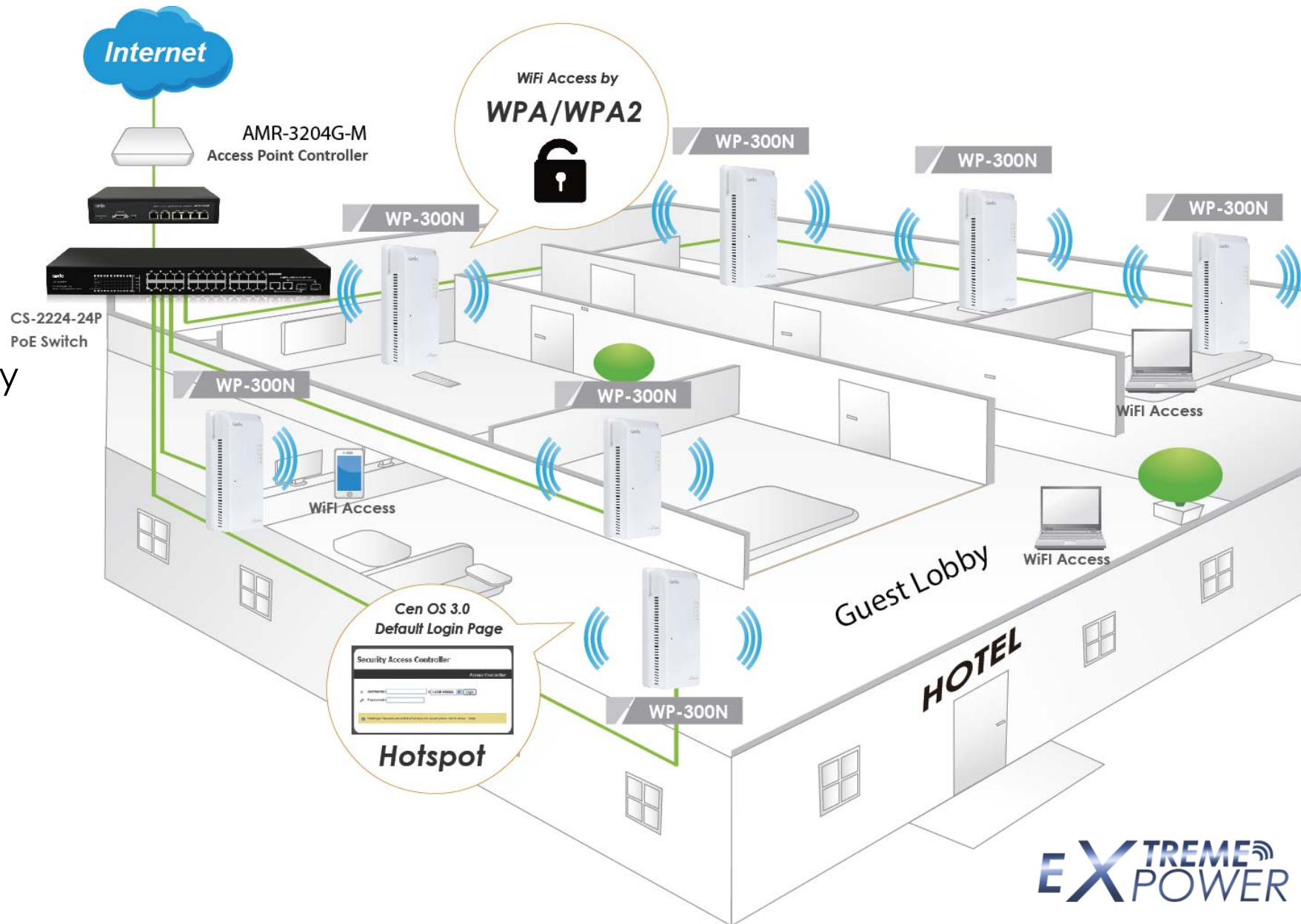
WP-300N also incorporates a USB port that can serve as an electronic device charging station, perfect for deployment situations such as Airports, Hotels, and Schools.

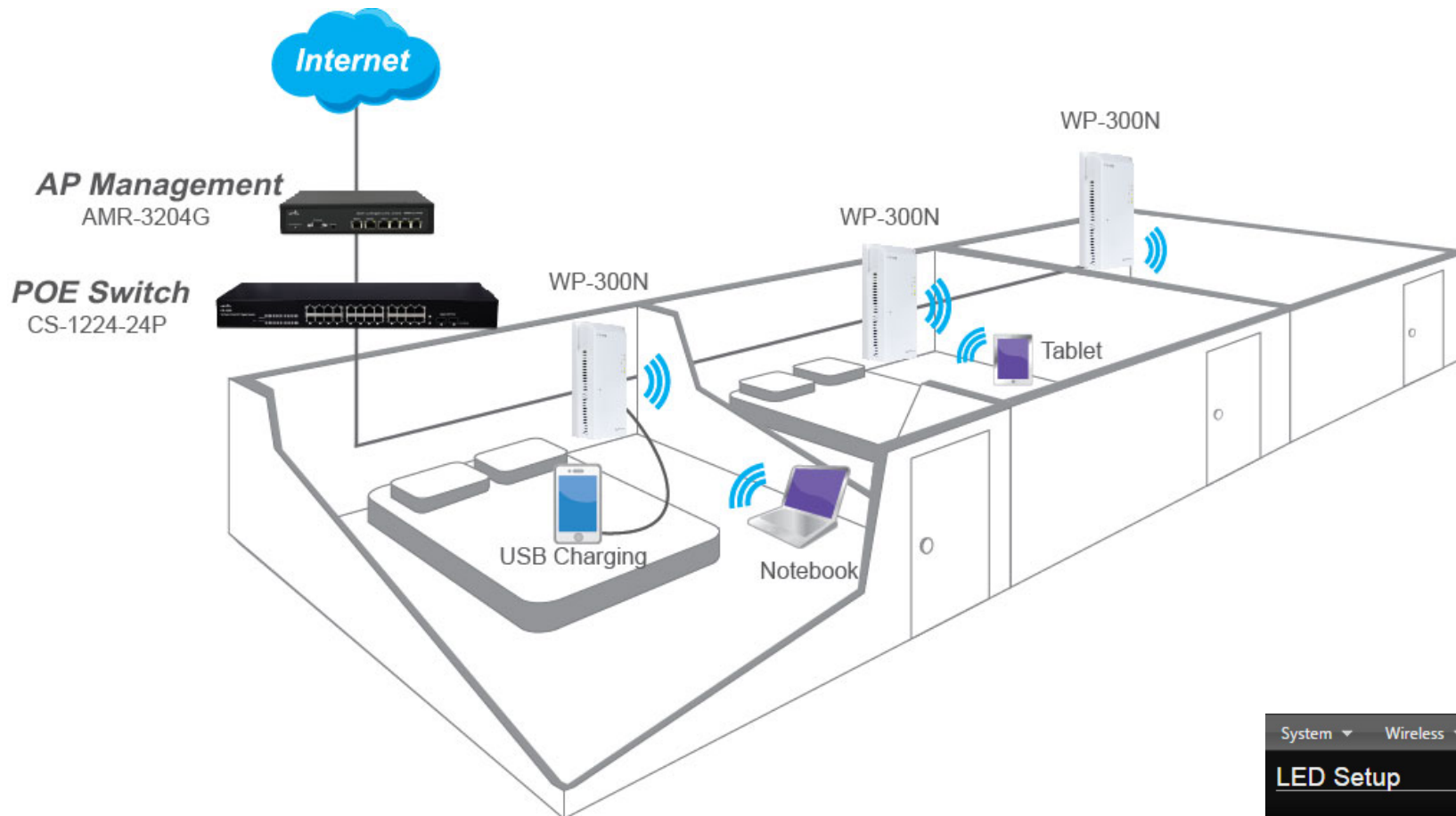
# Scalability

Paired with our **AMR-3204G-M** or Cerio Wireless Management Software (**CWMS**), administrators can **oversee** and **manage** high density client deployment with convenience and ease.

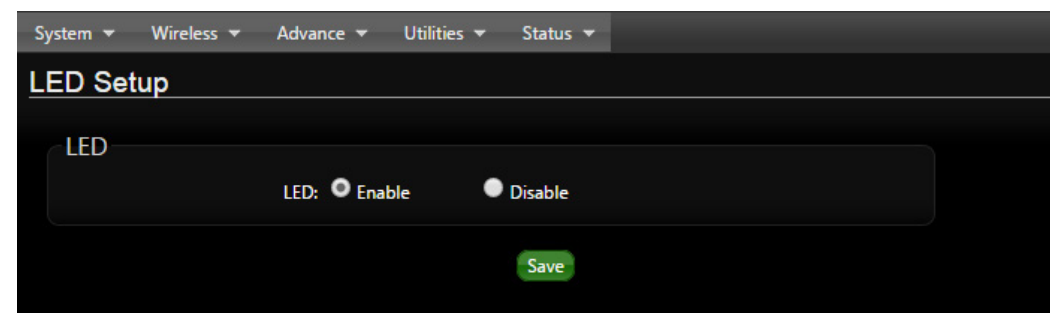


WP-300N Wall Plate Access Points can be managed by Cerio AP Controller AMR-3204G. This allows administrators to conveniently control bandwidth and manage load-balancing. Hotel administrators can also create customized login to redirect hotel guests to desired websites or advertisements





Administrators using WP-300N's CenOS 3.0 can control the device's hardware LED lights. The On/Off setting is perfect for hotel deployment in situations where guests find the blinking green LED lights distracting.



VAP List

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

Cerio's CenOS 3.0 Software allows each WP-300N device to broadcast 8 SSIDs. Each SSID can be configured to a specified SSID by the network administrator. This is known as VLAN tagging. WP-300N supports up to 4096 VLAN tags.

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

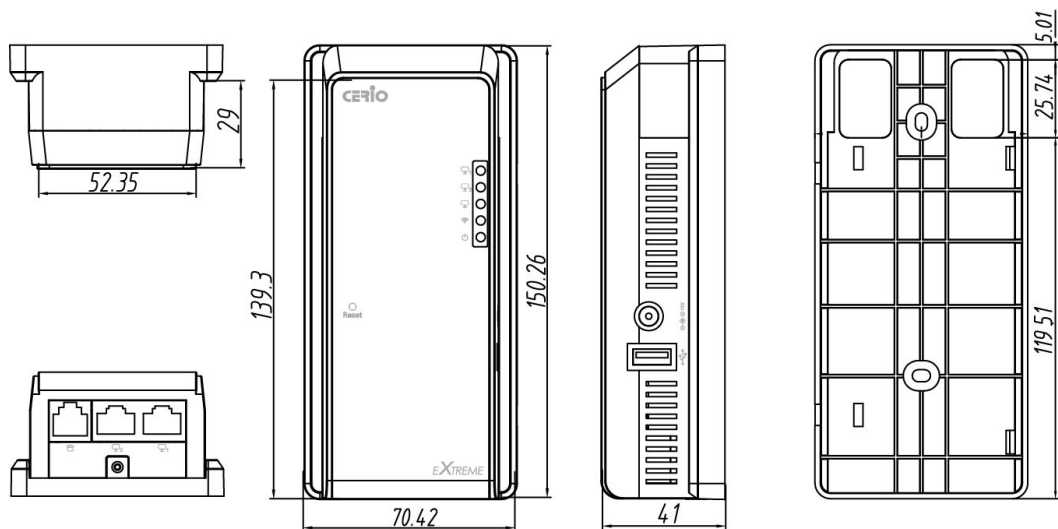


# Highlight Features

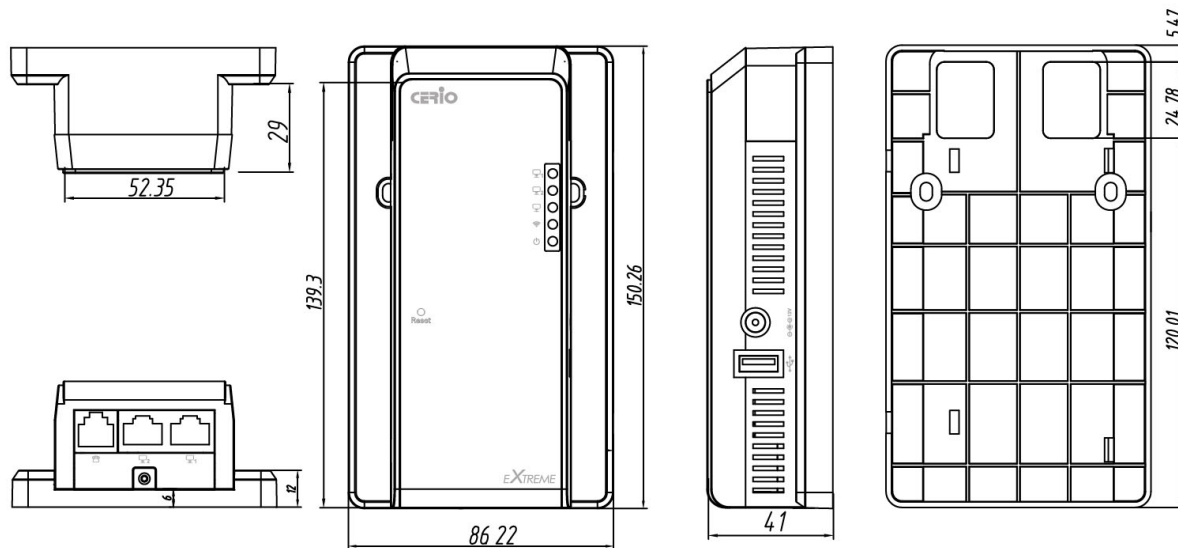
- Seamless integration and deployment through mounting design
- Elegant industrial design perfect for high class indoor deployment such as hotels and luxury homes
- Can broadcast up to 8 SSIDs, all of which support VLAN tagging
- Manageable by Cerio Wireless Management System (CWMS) and AMR-3204G-M AP Controller
- Supports Watch Time Dog, the OS smartly reboots the system before a major crash.



## U.S.A / Japan Type



## Europe / China Type



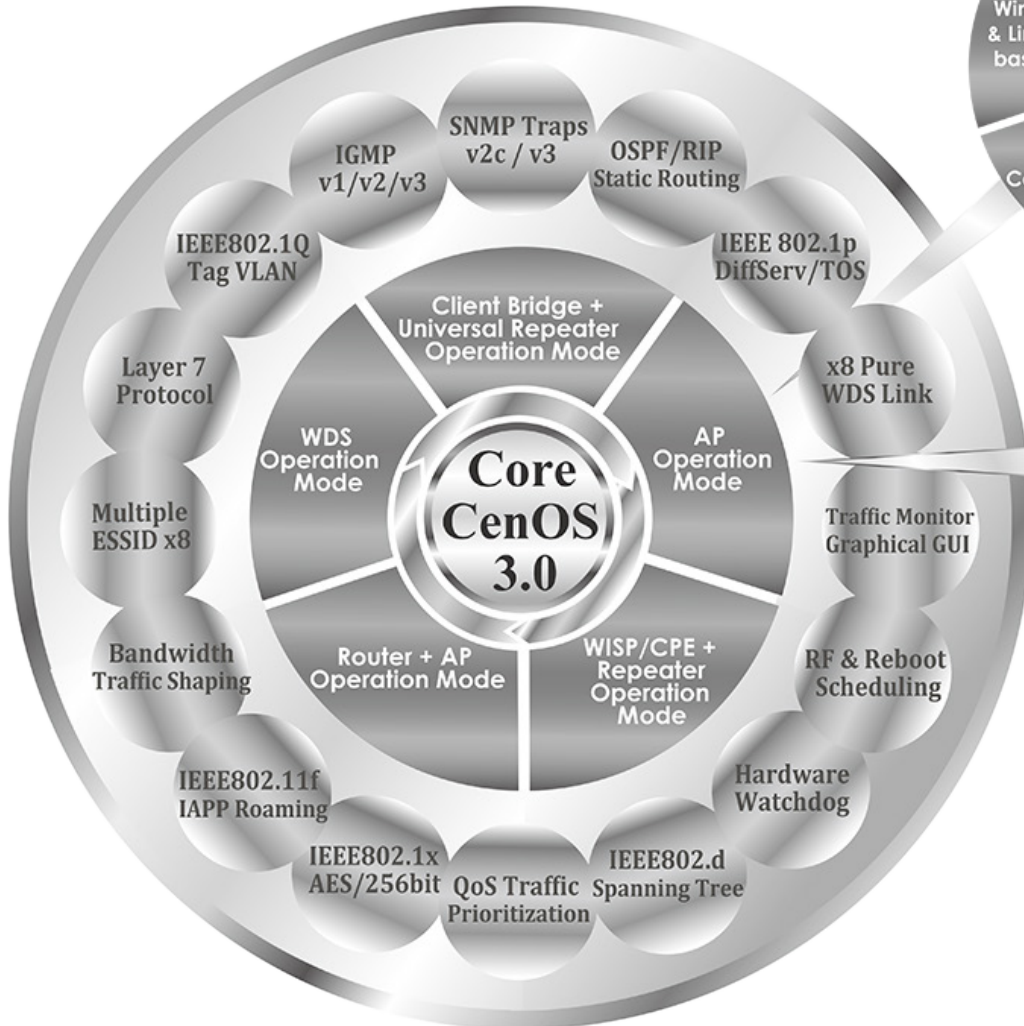
\* Measurements in millimeters

# CenOS 3.0

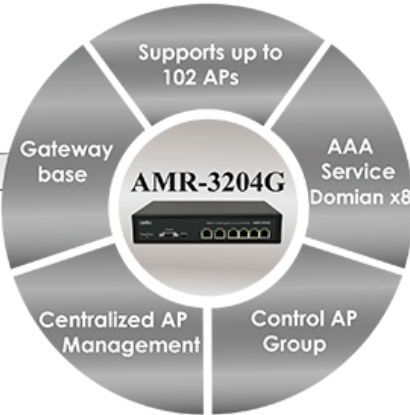
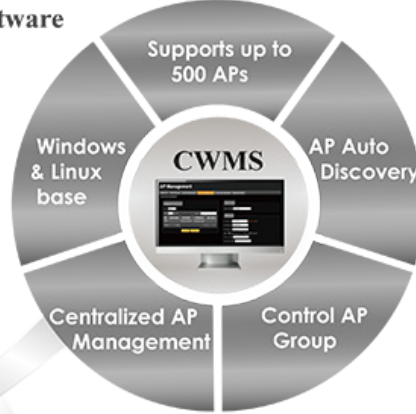
## Software Bundle

# CenOS 3.0 Software Overview - CERIO

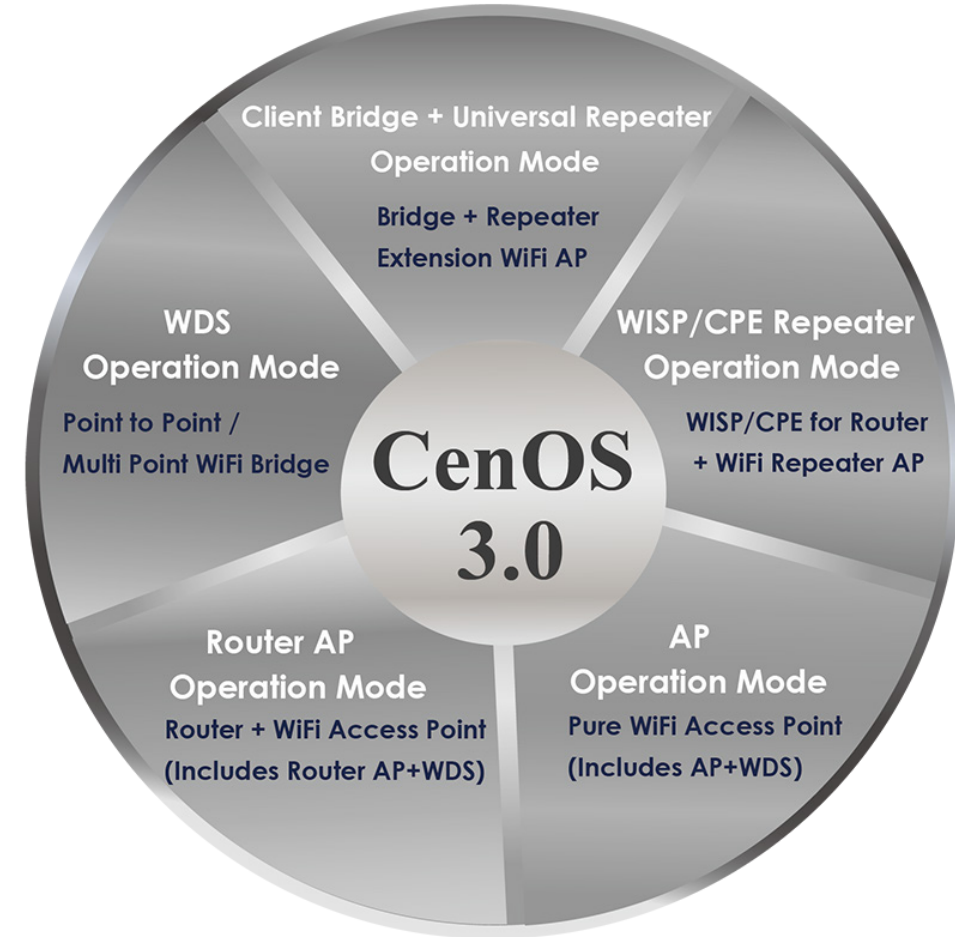
## CenOS 3.0 Software Kernel



## Cerio Wireless Management Software Supports



Cerio Hardware includes GS Controller



Only Cerio's special model supports Router AP mode

## 8 Multiple-ESSID Support

- Allows for organized network segmentation by administrators

## Integration

- Utilizes IGMP v1/v2/v3 Snooping Function
- Spanning Tree Protocol to ensure a loop free network infrastructure.
- Includes Web Management Support (CWMS)
- Integrated SNMP (Simple Network Management Protocol) MIB-II
- Supports Hardware chipset base Watch Time Dog Function

## Quality of Service (QoS)

- For bandwidth management and Traffic Prioritization

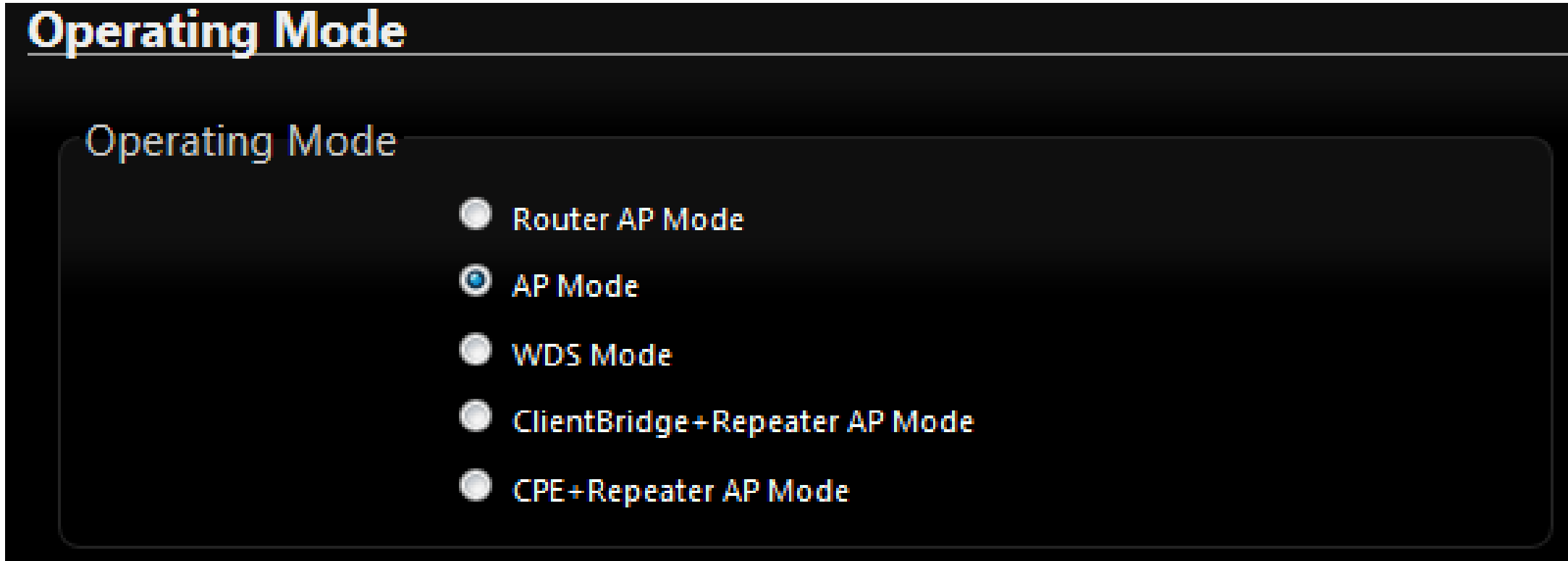
## Built-in Software Interface

- Built-in Cerio CenOS 3.0 which allows administrators to easily configure, monitor, and manage WP-300N settings and functions.



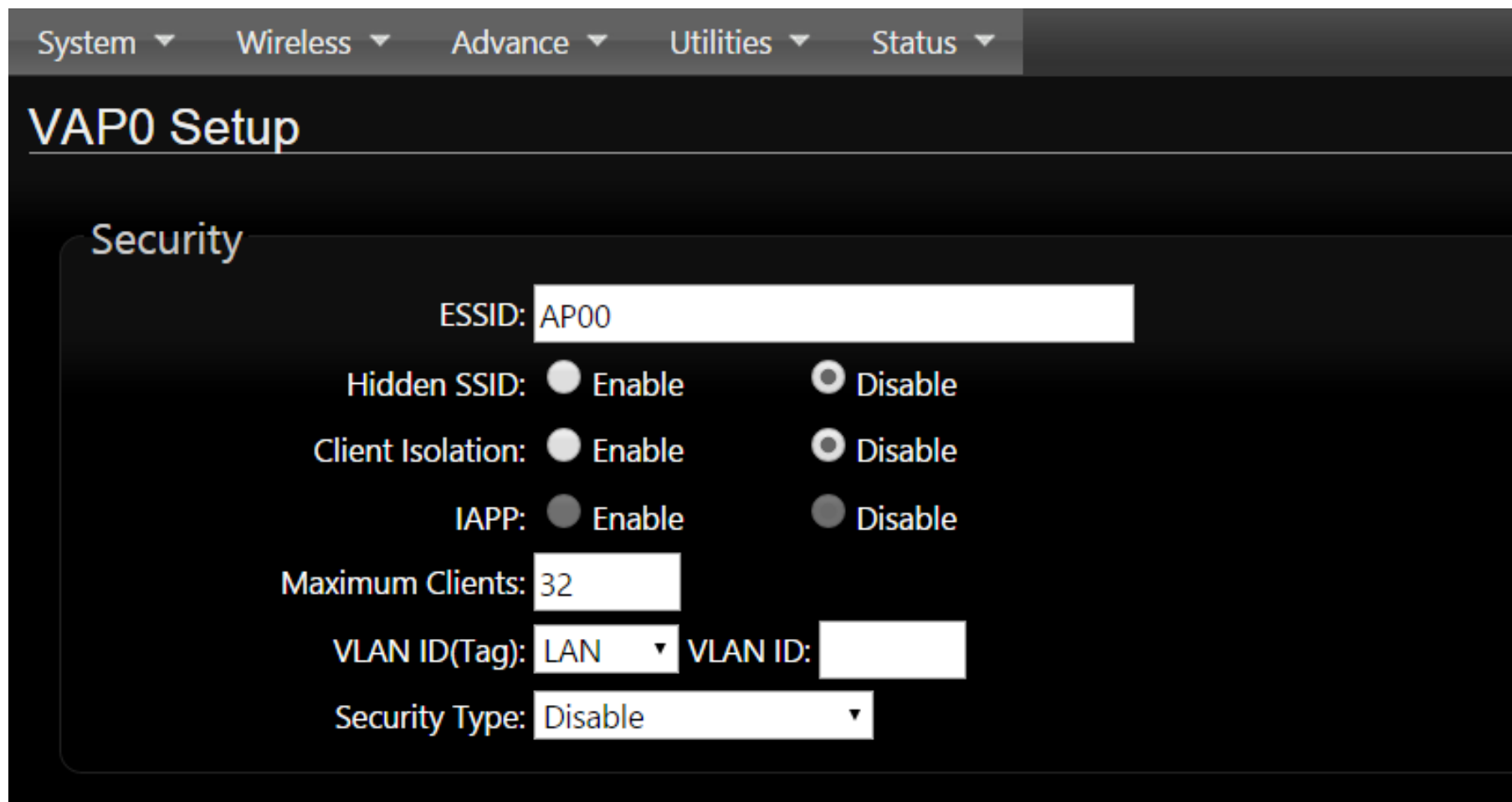
# 5 Operation Modes

Cerio's WP-300N Supports **5 Operation Modes**. The default operation mode for this device is Pure AP Mode.



# Virtual Access Point Setup — CERIO

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.



The screenshot displays the 'VAP0 Setup' configuration page. At the top, there is a navigation bar with tabs for 'System', 'Wireless', 'Advance', 'Utilities', and 'Status'. The main title 'VAP0 Setup' is prominently displayed. Below it, the 'Security' section is highlighted. The settings are as follows:

- ESSID: AP00
- Hidden SSID:  Enable  Disable
- Client Isolation:  Enable  Disable
- IAPP:  Enable  Disable
- Maximum Clients: 32
- VLAN ID(Tag): LAN (dropdown) | VLAN ID: [ ]
- Security Type: Disable (dropdown)

System ▾ Wireless ▾ Advance ▾ Utilities ▾ Status ▾

## QoS Setup

### Bandwidth Control

Service:  Enable  Disable

Mode:  Total Bandwidth  Per Rule Bandwidth

Upload:  kbps

Download:  kbps

### Per Rule

Comment:

Type:  ▾

IP:

Upload:  kbps

Download:  kbps

### QoS List

#	Comment	Rule	Bandwidth(U/D)	Action
No items in the list!				

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

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

Wi-Fi RF Signal on/ off By scheduling control

### Time Policy Setup

Policy 3

Policy: Policy 3

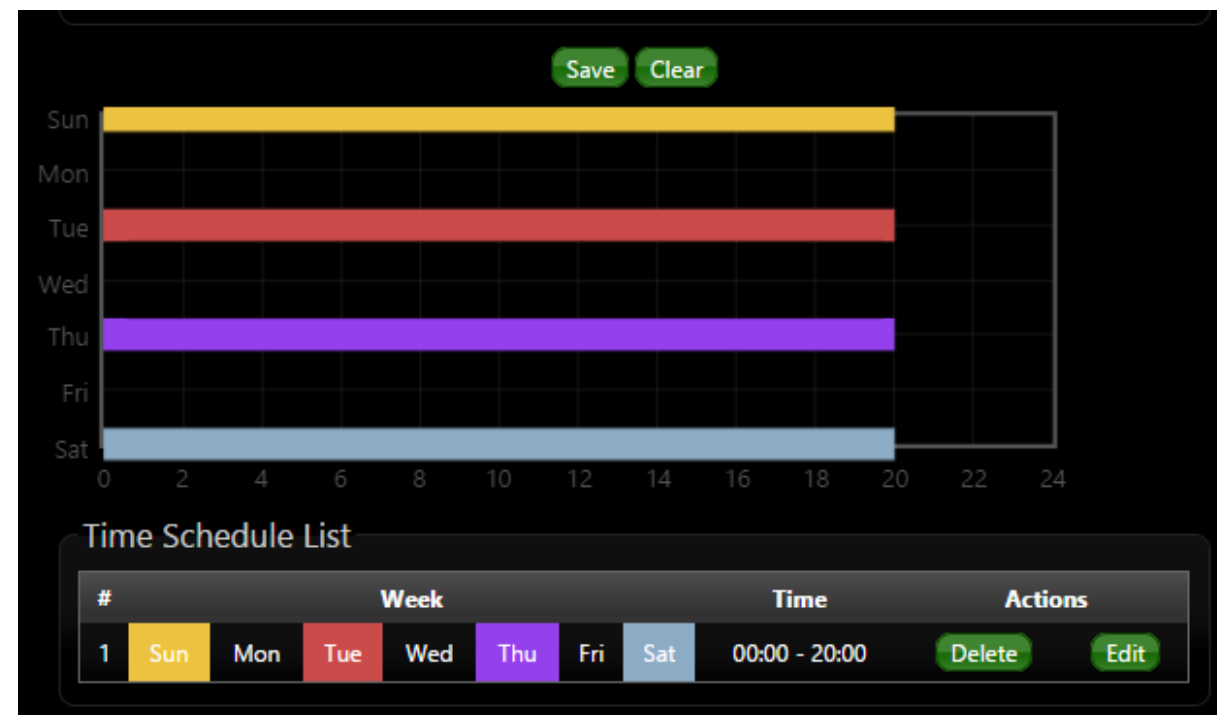
Schedule Rule:  On Schedule  Out of Schedule

### Time Schedule

Day of Week:  Sun  Mon  Tue  Wed  Thu  Fri  Sat

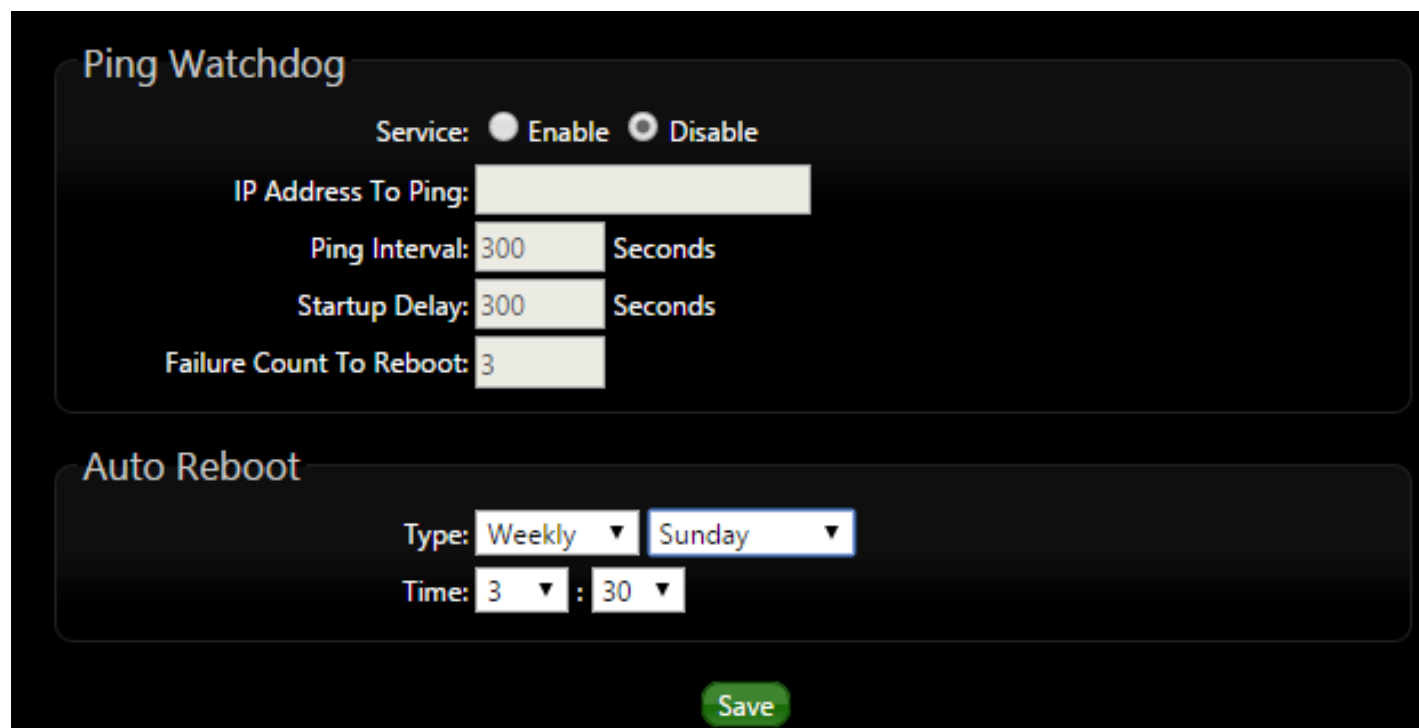
Start From: 00 : 00

End At: 20 : 00



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

Administrators can activate the CenOS 3.0 Auto Reboot function that effectively reboots the network system routinely based on admin settings. This enables better system reliability 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:  Enable  Disable

IP Address To Ping:

Ping Interval:  Seconds

Startup Delay:  Seconds

Failure Count To Reboot:

**Auto Reboot**

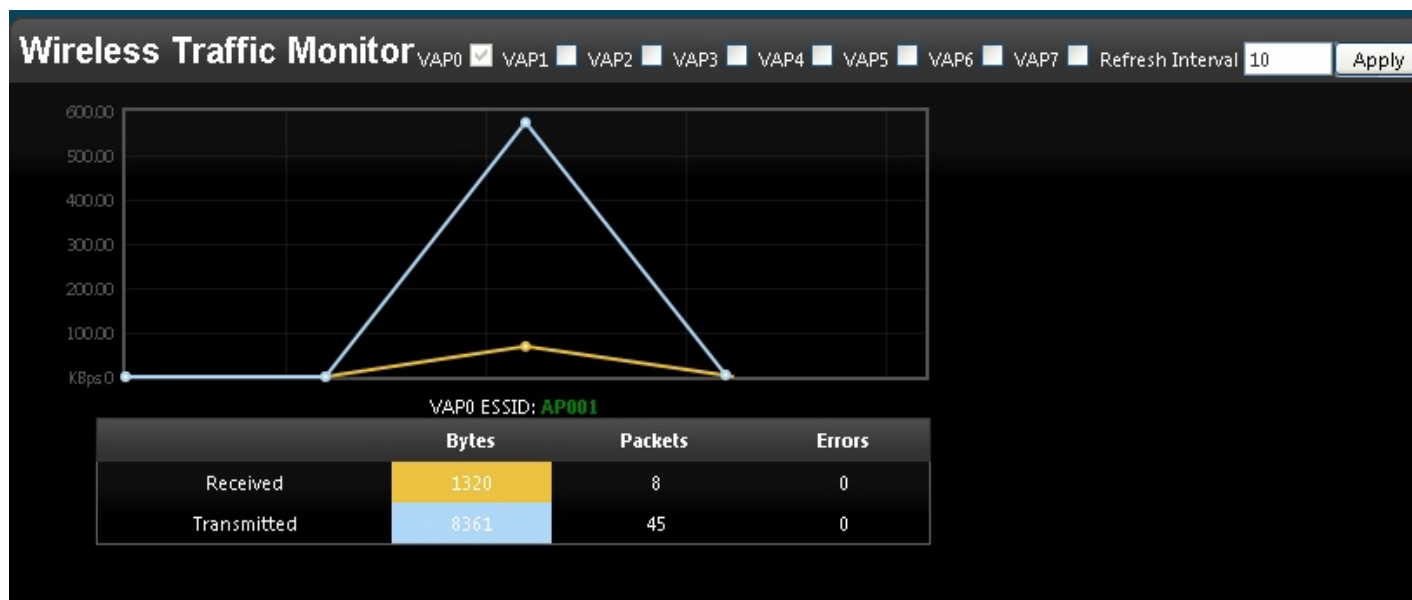
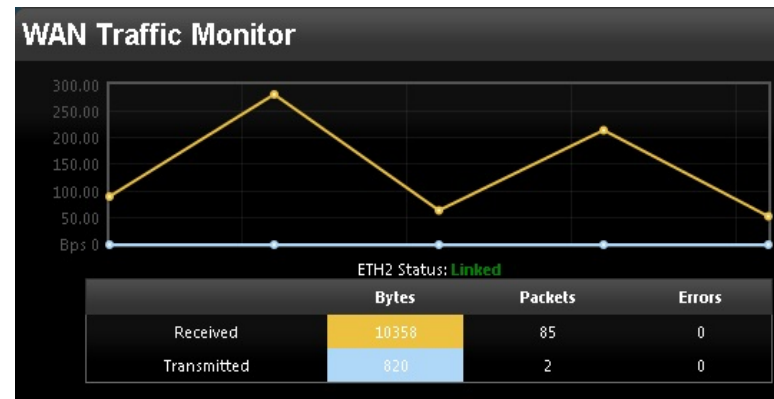
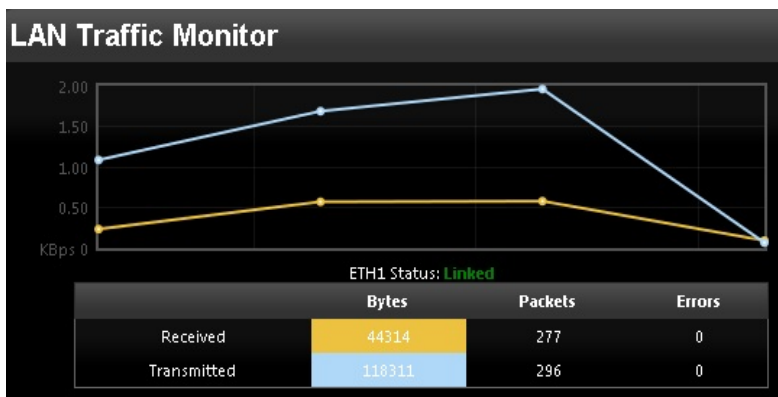
Type:

Time:  :



# Traffic Monitoring

CenOS 3.0 provides a Traffic Monitor and Graphical GUI Status Interface.



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