WAP-1954NP

IEEE802.11n High Power In-wall Access Point W/ Giga
IEEE802.3af POE Built-in
(Can be AP Managed by WMS-308N / WSW-1808A)

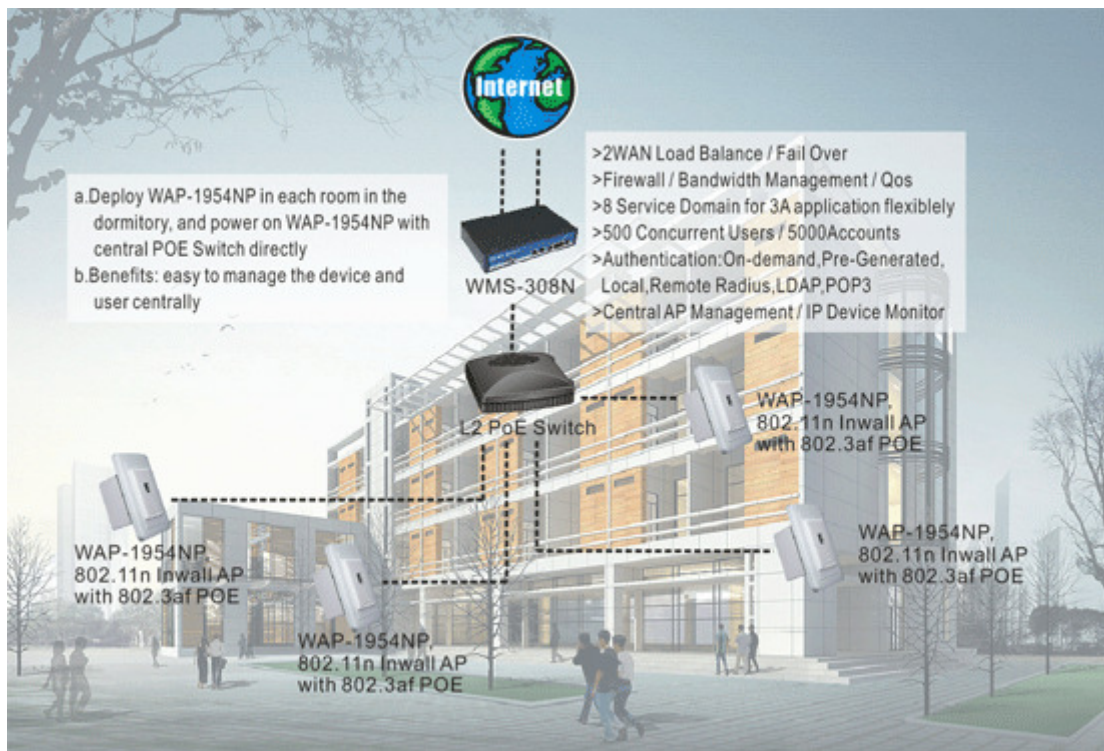**8 Multiple SSID/VLAN**   **Inwall AP Design**   **Giga IEEE802.3af POE**   **Central AP Management**

PheeNet WAP-1954NP IEEE802.11bgn High Power Indoor In-wall Wireless AP with Giga IEEE802.3af POE and 10/100 Front LAN port is designed to fit into a wall, and bring the benefits of both a RJ-45 wired connection as well as WiFi wireless connection.

The WAP-1954NP can be installed and configured easily into any new wireless network or integrated within an existing wired network resulting in a more flexible and cost-effective wireless deployment. And, a network administrator can centrally manage the WAP-1954NP via a Web browser or an SNMP MIB browser or PheeNet's Network Access Gateway / Controller WMS-308N or PheeNet's Wireless Switch WSW-1808A. With built-in IEEE802.3af POE Ethernet port, power and data are supplied to the unit using CAT5 Ethernet cable from Central IEEE802.3af POE Switch.

While integrating with Network Access Gateway / Controller WMS-308N or Wireless Switch WSW-1808A, PheeNet WAP-1954NP is a best IEEE802.11bgn Indoor Inwall Wireless AP for Public Wifi User Service Management in the Hotel, Hostel, Hospital, etc places.

Application

a. Deploy WAP-1954NP in each room in the dormitory, and power on WAP-1954NP with central POE Switch directly
b. Benefits: easy to manage the device and user centrally

WMS-308N

>2WAN Load Balance / Fail Over
>Firewall / Bandwidth Management / Qos
>8 Service Domain for 3A application flexiblely
>500 Concurrent Users / 5000Accounts
>Authentication:On-demand,Pre-Generated,
  Local,Remote Radius,LDAP,POP3
>Central AP Management / IP Device Monitor

L2 PoE Switch

WAP-1954NP,
802.11n Inwall AP
with 802.3af POE

WAP-1954NP,
802.11n Inwall AP
with 802.3af POE

WAP-1954NP,
802.11n Inwall AP
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WAP-1954NP,
802.11n Inwall AP
with 802.3af POE

Features

General Features
- A compact AP fits for any size of Ethernet wall jack
- Supports Gigabit Ethernet port
- Supports standard IEEE802.3af POE
- Use existing Ethernet cabling system, no re-wiring
- Invisible and could blend with all interior decoration

Wireless Features
- IEEE802.11h Transmission Power Control
- Channel Selection: Manual or Auto
- No of BSSID (VAP): 8
- No. of max WDS setting: 4
- Preamble setting : Short/Long
- Setting for transmission speed
- Dynamic wireless re-transmission

System Administration
- Web-based management UI
- Remote firmware upgrade by Web GUI
- Console management
- Backup and restore the system configuration
- Support SNMP v2c, v3, MIBII
- SNMP Traps to a list of IP number
- Support Telnet, SSH, Command Line Interface (CLI)
- Remote Link Test –Display connect statistics

Central AP management supported while working with WMS-308N or WSW-1808A:

• Auto discovery for managed APs
• AP-Automatic configuration and provisioning
• AP Profile Management
• AP Batch Setup (IP address, Wireless Security, VAP, System Info / Password / Management Method, Time Server, Channel / Output Power / Band / Country Code, Firmware update by TFTP or URL, etc.)
• AP Group Setup (Dynamic Channel Allocation, Maximum Client Control, MAC Filter Control, MAP)
• AP Group Status (IP address, FW version, Online user, RSSI, TX/RX bandwidth, Device Syslog)

Specification

Wireless	
Standard	IEEE802.11n IEEE 802.11g IEEE 802.11b
Frequency Band	2.412 ~ 2.484GHz
Modulation	IEEE802.11b：DSSS (DBPK,DQPSK,CCK) IEEE802.11g：OFDM(64-QAM,16-QAM,QPSK,BPSK) IEEE 802.11n：(OFDM(64-QAM, 16-QAM, QPSK, BPSK)
Security	WEP (64/128/152 Bit) WPA-PSK(AES+TKIP) / (802.1x , RADIUS) WPA2(PSK(AES+TKIP) / (802.1x , RADIUS) 802.1x (64/128 Bit) User Isolation Hidden SSID MAC Address Filtering (MAC ACL) IEEE802.11 mixed mode support open and shared key authentication VLAN assignment on BSSID VLAN assign to Front LAN VLAN pass through to Front LAN Network Integrity Client to Client Isolation AP to AP Isolation

Sensitivity	11b: -90dBm@1Mbps, ±2dB -88dBm@2Mbps, ±2dB -86dBm@5.5Mbps , ±2dB -83dBm@11Mbps, ±2dB 11g: -86dBm@6Mbps, ±2dB -84dBm@9Mbps, ±2dB -82dBm@12Mbps , ±2dB -80dBm@18Mbps, ±2dB -78dBm@24Mbps, ±2dB -75dBm@36Mbps, ±2dB -72dBm@48Mbps , ±2dB -70dBm@54Mbps, ±2dB 11n: MCS HT20 HT40 0 -85dBm, ±2dB -83dBm, ±2dB 1 -83dBm, ±2dB -81dBm, ±2dB 2 -81dBm, ±2dB -79dBm, ±2dB 3 -80dBm, ±2dB -76dBm, ±2dB 4 -78dBm, ±2dB -72dBm, ±2dB 5 -74dBm, ±2dB -69dBm, ±2dB 6 -71dBm, ±2dB -65dBm, ±2dB 7 -67dBm, ±2dB -62dBm, ±2dB 8 -85dBm, ±2dB -83dBm, ±2dB 9 -83dBm, ±2dB -81dBm, ±2dB 10 -80dBm, ±2dB -78dBm, ±2dB 11 -78dBm, ±2dB -75dBm, ±2dB 12 -75dBm, ±2dB -71dBm, ±2dB 13 -71dBm, ±2dB -69dBm, ±2dB 14 -68dBm, ±2dB -64dBm, ±2dB 15 -65dBm, ±2dB -61dBm, ±2dB
Antenna	Built-in 2dBi Omni Antenna
EIRP	802.11b – 26±1.5dBm 802.11g – 23±1.5dBm 802.11n – 22±1.5dBm (HT20) 802.11n – 20±1.5dBm (HT40)
Transmit Power Control	Range 1-100
Channels	802.11b/g/n : 11 for FCC,14 for Japan,13 for Europe, 2 for Spain, 4 for France
Operating Mode	AP Mode WDS Mode
QOS	IEEE 802.1p /COS IEEE 801.11e WMM IEEE 802.11D Spanning Tree

Management	Web-based administration Firmware upgrade by Web GUI Remote Link Test –Display connect statistics SNMP Traps to a list of IP number(Option) Even Log Support DHCP Client Support SNMP MIBII v2c/v3(Option) Support Telnet(Option) Command Line Interface (CLI) (Option) NTP Time synchronization Support Statistics on total transmission encountered and transmitting error occurred

Hardware

Base Platform	Ralink RT3052F
Clock Speed	384MHz
Reset Switch Built-in	Push-button momentary contact switch
SDRAM	On board : 16 Mbytes
Flash	On board : 4 Mbytes
Interface	Front LAN: 10/100BASE-TX auto-negotiation Ethernet port x 1 (RJ-45 connector) ; Auto MDI/MDI-X WAN: 10/100/1000BASE-TX auto-negotiation Ethernet port x 1 (RJ-45 connector) ; Auto MDI/MDI-X Support 48VDC IEEE 802.3af Active Power Over Ethernet X 1
LED	1x Power, 1x LAN, 1x WLAN
Environment	Operating Temperature:-20~50℃ Storage Temperature:-20~70℃ Humidity: 5%~90%(non condensing)
Power Supply	Power Over Ethernet (48V/0.125 A) System Power Consumption: 4.5W
Dimensions	36.5(W) x 70(L) x 64(H)(mm)
Weight	150g
Certificate	FCC , CE