



WAP-1954NP-C

IEEE802.11bgn High Power In-Ceiling Access Point W/ Giga
IEEE802.3af POE Built-in

- 8 Multiple SSID with VLAN
- Giga bit LAN port with PoE
- Centralised AP management (using WMS-308)
- Ceiling mount design
- Optimised antenna design

PheeNet WAP-1954NP-C IEEE802.11bgn High Power Indoor Ceiling Wireless AP with IEEE802.3af POE is designed to fit into the Ceiling, and bring WiFi wireless connection.

The WAP-1954NP-C 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-C 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 for AP and User Management the PheeNet WAP-1954NP-C is the best IEEE802.11bgn Indoor Ceiling Wireless AP for Public Wifi User Service Management in Hotels, Hostels, Schools, Colleges, Hospital, etc.

Application



Features

General Features

- 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
- Supports AP management and control using the WMS-308

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:

- 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	<p>11b: -90dBm@1Mbps, ±2dB -88dBm@2Mbps, ±2dB -86dBm@5.5Mbps, ±2dB -83dBm@11Mbps, ±2dB</p> <p>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</p> <p>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</p>
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 (Bridge /Repeater) AP Client 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 Event Log Support DHCP Client 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	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 LAN, 1x WLAN
Environment	Operating Temperature:-20~50°C Storage Temperature:-20~70°C Humidity: 5%~90%(non condensing)
Power Supply	Power Over Ethernet (48V/0.125 A) System Power Consumption: 4.5W
Dimensions	125mm diameter x 64mm depth
Weight	150g
Certificate	FCC , CE