



We Connect the World



## WAC-1200

IEEE802.11ac 2T2R Wireless Hotspot Gateway

(1WAN+4LAN or 4WAN+1LAN Software Configurable)

W/ External 2 x 2.4GHz 5dBi Antenna & 2 x 5GHz 5dBi Antenna

IEEE802.11ac 1200Mbps

5GHz & 2.4GHz Concurrent

Captive Portal / Guest Portal

External High Gain Antenna

Mobile APP Support

Web Management

User Authentication

PheeNet WAC-1200 is an IEEE802.11ac 5GHz, and IEEE802.11n 2.4GHz Concurrent WiFi Hotspot Gateway with 10/100/1000 Giga Ethernet ports which supports maximum bandwidth 1200Mbps, up to 300Mbps 2.4GHz and 867Mbps 5GHz, and providing the extra edge of increased flexibility & performance of WiFi deployment for SMB, SME, office, luxury houses, Café, Restaurant, etc. It concurrently addresses the growing needs of BYOD and bandwidth demands with no degradation in performance.

Being a Wireless Hotspot Gateway, WAC-1200 equips with complete WiFi AP function, also supports Captive Portal, and different User Authentication methods, On-Demand with QR code printing, Pre-Generated Ticket, OAuth2.0 (Facebook, Google), Guest, Local Radius, POP3/IMAP, and Radius Server to secure and manage Wifi user access.

Not only Web Management, but also PheeNet provide Cloud & Mobile APP for Administrator to monitor and manage WAC-1200 anytime and anywhere.

## Application



## Features

### Wireless Feature

- Both 2.4GHz and 5GHz Dual Band Concurrent Operation
- High speed transmit and receive data rate – up to 867Mbps while operating in IEEE 802.11ac (5GHz 80MHz) mode and up to 300Mbps while operating in IEEE802.11 an(5GHz, 40MHz) or b/g/n (2.4GHz) mode.
- Transmission Power Control: Level 1 - 9
- Channel Bandwidth Setting: 20MHz, 20/40MHz, 80MHz
- HT TX/RX Stream Selection: 1 or 2
- Supports packet transmission time control through Slot Time and ACK Timeout interval control functions
- Supports Beacon Interval and performance control DTIM Interval for client power efficiency
- No. of SSID (Virtual AP): 8 Per Radio
- No. of Max. WDS Setting: 8 Per Radio

### Wireless Security

- SSID Visibility support to display or hide ESSIDs, and VLAN assignment on ESSID
- Support 802.1x authentication (EAP-MD5 / TLS / TTLS)
- WEP 64 / 128bit EAP-TLS + Dynamic WEP, EAP-TTLS + Dynamic WEP, PEAP/ MS-PEAP + Dynamic WEP
- Support security protocol IEEE802.11i Preauth (PMKSA Cache)
- WPA-PSK/TKIP, WPA-802.1x/TKIP, 802.11i WPA2-PSK/CCMP/AES 128/256bit, WPA2(802.1x/CCMP/AES 128/256bit), No. of registered Radius Servers: 1

- Setting for TKIP/ CCMP/ AES 128/256bit (ASCII 63 & HEX 64) key's refreshing period
- ESSID supports VLAN Tag function; each group can use different virtual ESSID tag for organized traffic
- Access Control List (ACL) by MAC Address
- Client Isolation and Client Connection Limitations

### **User Authentication**

- Guest Account – Auto expired guest account (Login time in Minutes, Login type – One time or Multiple time)
- On-Demand and Pre-Generated ticket
  - Create Package
    - Define minimum User Name / Password
    - Define Accounting Methods
  - Create Accounts
    - Manual
    - Via Ticket Printer (option)
    - Import
- On-Demand support the ticket print out from additional Network Printer, or special ticket printer set (PSS-120 and PPT-002); QR code on the ticket is available
- OAuth2.0 – Facebook Account login, Google Account Login
- POP3/IMAP: define POP3/IMAP email server for Authentication
- Local User: manually setup Local User Name and Password
- Radius Server / LDAP: define external Radius Server or LDAP Server for Authentication
- Multiple Login: enable Multiple Login to use one account for multiple devices
- Wall Garden
- Customize Login Page / Captive Portal: Template and Multiple Language define for each column displayed in Captive Portal; Customized Login HTML file in order to add advertisement link
- SSL Protected Login Portal Page
- Login Timeout Timer
- Support MAC & IP Filter, and MAC & IP Privilege List
- Bandwidth Control (Total User Upload/Download, Peer User Upload/Download)

### **Networking & Management**

- Support IEEE802.1Q VLAN Tag
- Supports DHCP server function to automatically give IP address to end clients
- Support DHCP Relay
- Support Dynamic IP (DHCP Client), fixed IP for DHCP clients and PPPoE dial-up link to the WAN Wifi network
- Supports PPPoE Reconnect, conveniently connecting clients to the DHCP server
- Support Proxy DNS, Dynamic DNS, and NTP client
- Support IP Plug & Play
- Support SIP Pass-Through NAT
- Intuitive Web-Based management interface, Administrator Access: HTTP and HTTPS and support CLI access via Telnet and SSH
- Support remote Firmware Upgrade via Web, Reset to Factory Default
- Support SNMP v1/v2c/v3, MIBII; Also support SNMP Traps to a list of IP Address

- Support Ping Watchdog to detect crashes after consecutive failed pings
- Support System log Setup to remote server
- Support Cloud & Mobile APP for administrator to monitor and manage the device anytime and anywhere

### Quality of Service

- Download and Upload traffic control and support Traffic Analysis and Statistics
- IEEE802.11e WMM
- DiffServ/TOS, COS, IEEE802.1Q Tag VLAN priority control

### Multiple WAN

- Load Balance
- Fail Over
- WAN Connection Detection
- Bandwidth Management

### Status Monitoring

- Status monitoring of on-line users and authentication users
- Real-Time Online Users Traffic Statistic Reporting and users connection status
- Support Syslog for diagnosing and troubleshooting
- User traffic history logging

### Hardware Features Highlights

- 2.4GHz IEEE802.11bgn standard with maximum data rate of 300Mbps
- 5GHz IEEE802.11an/ac with maximum data rate of 867Mbps
- External 5dBi High Gain Omni Antenna

### Specification

Wireless	
Standard	IEEE 802.11a/b/g/n/ac
Security	64/128-bit WEP, WPA and WPA2 securities and also IEEE 802.1x authentication
Frequency Band	2.4GHz and 5GHZ wireless networks connection simultaneously
Receive Sensitivity	802.11b $\leq$ -76dBm 802.11g $\leq$ -65dBm 802.11n $\leq$ -61dBm 802.11a $\leq$ -64dBm 802.11ac $\leq$ -59dBm
Output Power	802.11: 18 $\pm$ 2dBm 802.11g: 15 $\pm$ 2dBm 802.11n: 15 $\pm$ 2dBm 802.11a: 14 $\pm$ 2dBm 802.11ac: 14 $\pm$ 2dBm
Channel	802.11b/g/n : 11 for FCC,14 for Japan,13 for Europe, 2 for Spain, 4 for France

	802.11a/n/ac : 12 For FCC , 4 for Japan 4, 18 for Europe
Operation Mode	Hotspot Gateway mode
<b>Hardware</b>	
Flash	16MB SPI Flash
SDRAM	512MB DDR3 SDRAM
Interface:	<ul style="list-style-type: none"> <li>➤ 5 x 10/100/1000Mbps Giga Ethernet (Software Configuration to be 4WAN + 1LAN or 1WAN + 4LAN)</li> <li>➤ 1 x USB2.0</li> <li>➤ Hardware Reset Button</li> </ul>
LED	Power, 2.4G WiFi, 5G WiFi, WAN, LAN
Antenna	4 x Detachable 5dBi High Gain Antenna (2 for 2.4GHz W/Reserve SMA Connector & 2 for 5GHz W/ SMA Connector)
Environment	<p>Operating Temperature: 00 °C ~ 50 °C</p> <p>Storage Temperature: 00 °C ~ 60 °C</p> <p>Opeaating Humidity: 10~80%(non condensing)</p> <p>Storage Humidity: 5~90%(non condensing)</p>
Power Supply	110 – 220V AC Power, 12 VDC, 2A input.
Dimensions	165(mm) * 132mm * 30mm (L*W*H)
Certificate	CE, ROHS compliant

● spec. Could be varied without further notice.

## PheeNet Technology Corp.

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