



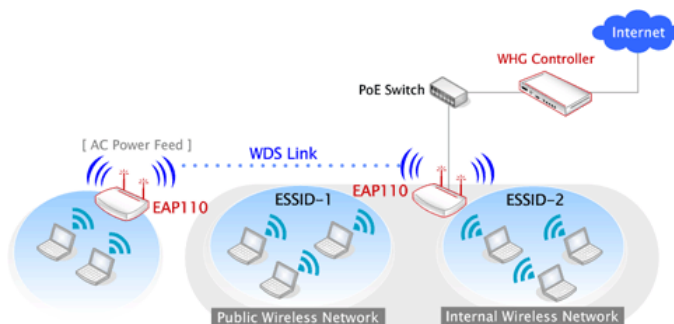
Embedded with 802.11n/b/g 2.4GHz MIMO radio in IP50 dust-proof metal housing, the high speed (up to 300Mbps) and durable **4ipnet EAP110 Enterprise Access Point** is designed for wireless connectivity in enterprise or industrial environments of all dimensions.



EAP110 makes the wireless communication fast, secure and easy. It supports Tunnel-based AP Management, business grade security such as 802.1X, and Wi-Fi Protected Access (WPA and WPA2). EAP110 also supports WDS links to bridge wireless links of multiple EAP110s for forming wider wireless network coverage. EAP110 features multiple ESSIDs with VLAN tags; one EAP110 can emulate up to eight Virtual APs, great for enterprise applications, such as separating the traffics of different departments using different ESSIDs. Wireless clients are shielded from each other by Layer 2 isolation, preventing possible attacks from malicious users. Furthermore, implemented with Wireless Layer 2 firewall, EAP110 inspects all inter-Virtual AP traffics as well as wireless to wired traffics and decides whether to block or allow passage according to specified security criteria. Administrators can define their own firewall rules to create a secure wireless networking environment. Other advanced features of Wireless Layer 2 firewall include DHCP snooping and ARP inspection.

Supporting up to 300Mbps wireless speed with its 802.11n 2 x 2 MIMO solutions, EAP110 is perfect for bandwidth-hungry applications such as video surveillance, multimedia streaming over the wireless links.

EAP110's higher throughput, security and durability make it a perfect choice of wireless connectivity for your applications.



## FEATURES & BENEFITS

### 2.4GHz 2 x 2 MIMO Field Replaceable Antenna & Backward Compatible with 802.11n/b/g

- The antenna diversity design enhances the connection reliability to improve data transmission capability
- Two detachable antennas for optimal wireless coverage and field replacement flexibility
- Equipped with a high-speed IEEE 802.11n/b/g wireless network interface, transmission rates up to 300Mbps

### WDS for Extending Wireless Coverage

- Creates structural WDS (Bridge or Repeater) links connecting to other WDS-capable APs
- WDS links can serve as EAP110's LAN connections to replace Ethernet ports, or simply bridge the wired side and the wireless side as a single network

### Business-class WLAN Security & Client Authentications

- Advanced security options: 64/128 bits WEP, WPA/WPA2 with IEEE 802.1X or PSK (Pre-Shared Key)
- Wireless LAN segmentation, Disable SSID Broadcast and the option of station-isolation
- Configuration-capable to filter out unauthorized wireless clients with built-in MAC-based access control list or via a back-end RADIUS server by sending an authentication request
- Wireless Layer 2 Firewall with customizable firewall rules to filter inter-Virtual AP and wireless to wired data traffics, safe guarding wireless network integrity

### Multiple Virtual APs & Capability of Client Isolation

- One EAP110 can emulate up to 8 Virtual APs (VAP), each with its own ESSID; namely, one AP can have 8 ESSIDs
- Each VAP appears to clients as an independent AP and its traffic can be associated with a VLAN ID
- Supports client isolation, isolated from each other under one AP

### Tunneled AP Management

- EAP110 can physically be deployed at any location with an IP network. Its WLAN can be logically incorporated into a remote 4ipnet Secure WLAN Controller that manages it through the internal network via secure tunnels
- With Tunneled AP Management, wireless clients associated to EAP110 can enjoy the network service provided by the remote 4ipnet Secure WLAN Controller

### PoE Capable

- The IEEE 802.3af Power over Ethernet (PoE) compliant design eliminates the need for power sockets, allows installation of this device in areas where power outlets are not readily available to improve deployment flexibility, and provides standard-based compatibility with other device

## Wireless Radio

- Frequency band: 2.4 GHz
- Wireless architecture:
  - (1) AP mode
  - (2) WDS mode (Bridge / Repeater)
- Modulation:
  - (1) OFDM (64-QAM, 16-QAM, QPSK, BPSK)
  - (2) DSSS (CCK, DBPSK, DQPSK)
- Channels:
  - (1) USA (Channel 1~11)
  - (2) Japan (Channel 1~14)
  - (3) Europe (Channel 1~13)
- Data rate with auto fallback:
  - (1) 802.11b: 1 ~ 11 Mbps
  - (2) 802.11g: 6 ~ 54 Mbps
  - (3) 802.11n: 6.5 ~ 300Mbps
- Transmit Power:
  - (1) 802.11b: Up to 17dBm
  - (2) 802.11g: Up to 15dBm
  - (3) 802.11n: Up to 15dBm
- Antenna: 2 x detachable with SMA connectors
- Receiver Sensitivity:
  - (1) 802.11b: 11Mbps@-90dBm
  - (2) 802.11g: 54Mbps@-74dBm
  - (3) 802.11n: 300Mbps@-68dBm

## Handover & Roaming

- IEEE 802.11i pre-auth (PMKSA cache)

## System Management

- Web-based administration
- SNMP v1/v2c
- Provides Event Log
- SYSLOG information support
- Statistics
- Configuration backup and restore
- One physical button to reset to factory default setting
- Firmware upgrade
- Capable of performing RADIUS Accounting and Accounting Update
- Support Tunneled AP Management with 4ipnet Secure WLAN Controllers

## Security

- WEP (64/128 bits)
- EAP-TLS + Dynamic WEP
- EAP-TTLS + Dynamic WEP
- PEAP/MS-PEAP + Dynamic WEP
- WPA (PSK + TKIP)
- WPA (802.1X certification + TKIP)
- 802.11i WPA2 (PSK + CCMP/AES)
- 802.11i WPA2 (802.1X certification + CCMP/AES)
- Setting for TKIP/CCMP/AES key's refreshing period
- Hidden ESSID support
- Layer 2 wireless isolation
- Wireless Layer 2 Firewall
- MAC Address filtering (MAC ACL)
- MAC authentication with RADIUS servers
- Maximum number of registered RADIUS servers: 2

## Built-in Servers & Client Interfaces to Other Services

- DHCP client
- DNS client
- SYSLOG client
- RADIUS client
- SNMP v1/v2c client

## Wireless Signal Management

- Number of ESSIDs (Virtual APs): 8
- Number of associated clients per system: 32
- Setting for maximum number of associated clients

## Hardware Specifications

- IP50 Dust-proof metal case
- LAN Port: 1 x 10/100 Base-T Ethernet with PoE
- LED Indicators: 1 x Power, 1 x WLAN, 1 x LAN

## Physical and Power

- Power adaptor (included)
  - (1) AC Input: 100~240 VAC, 50~60 Hz
  - (2) DC Output: 5V, 1A
- Alternative Power:
  - (1) 802.3af PoE (PSE not included)
- Form factor: Wall Mountable
- Dimensions (W x D x H): 6.5" x 3.6" x 1.2"  
(165 mm x 90 mm x 30 mm)
- Weight: 0.83 lbs (0.4 kg)

## Environment

- Operation Temperature: -30 ~ 70 °C
- Storage Temperature: -40 ~ 85 °C
- Operation Humidity: 10% ~ 80% (Non-condensing)
- Storage Humidity: 5% ~ 90% (Non-condensing)

## Certifications

- FCC, CE
- RoHS compliant

## Package Contents

- 4ipnet EAP110 x 1
- CD-ROM (with User's Manual and QIG) x 1
- Quick Installation Guide (QIG) x 1
- Power Adapter (DC 5V) x 1
- Antenna x 2

\*\* Specifications subject to change without notice