



## 300Mbps Wireless PoE Managed Access Point

H/W Version: 1.1

### Overview

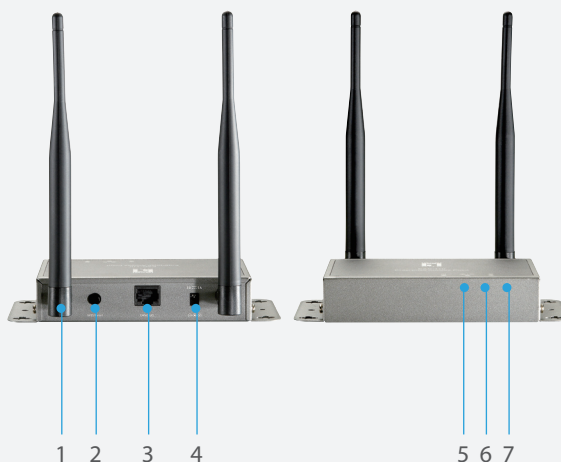
Embedded with IEEE 802.11n/b/g 2.4GHz MIMO radio in IP50 dust-proof metal housing, the high speed (up to 300Mbps) and durable EAP-110 Enterprise Access Point is designed for wireless connectivity in enterprise or industrial environments of all dimensions.

EAP-110 makes the wireless communication fast, secure and easy. It supports Tunnelled AP Management, business grade security such as 802.1X, and Wi-Fi Protected Access (WPA and WPA2). It also supports WDS links to bridge wireless links of multiple



EAP-110

EAP-110 devices for forming wider wireless network coverage. EAP-110 features multiple ESSIDs with VLAN tags; one EAP-110 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, EAP-110 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.



1. SMA Antenna Connector
2. WES / Reset button
3. LAN (PoE)
4. Power Jack (5VDC, 1A)
5. Power
6. WLAN / WES
7. LAN

### Key Features

- 2 antennas with 2T/2R MIMO Technology for wireless data rates of up to 300Mbps
- Compatible with IEEE 802.3af PoE standard
- Multiple SSID enables virtual APs and Client isolation
- Supports QoS and Class of Service
- Business grade WLAN security and client authentication
- Antenna type: 5dBi at 2.4GHz
- Tunnelled AP management
- WES push button for auto WDS connection
- IP50 industrial grade housing & wall mountable

### Related Products



**WHG-311**  
Secure WLAN Controller Mini



**WHG-401**  
Secure WLAN Controller Pro



## Technical Specification

### Wireless Radio

- Standard
  - IEEE 802.11b/g 2.4GHz
  - IEEE 802.11n 2.4GHz
  - IEEE 802.3af Power over Ethernet
- 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
- Receiver Sensitivity:
  - (1) 802.11b: 11Mbps@-90dBm
  - (2) 802.11g: 54Mbps@-74dBm
  - (3) 802.11n: 300Mbps@-68dBm

### Antenna

- 2x 5dBi
- Detachable with SMA connectors

### Handover & Roaming

- IEEE 802.11i pre-auth (PMKSA cache)

### 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

### System Management

- Web-based administration
- SNMP v1/v2c
- Provides Event Log
- SYSLOG information support
- Configuration backup and restore
- One physical button to reset to factory default setting
- Firmware upgrade
- Support Tunnelled AP Management with Secure WLAN Controllers

### 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): 165 mm x 90 mm x 30 mm  
(6.5" x 3.6" x 1.2")
- Weight: 0.4 kg (0.83 lbs)

### Environment

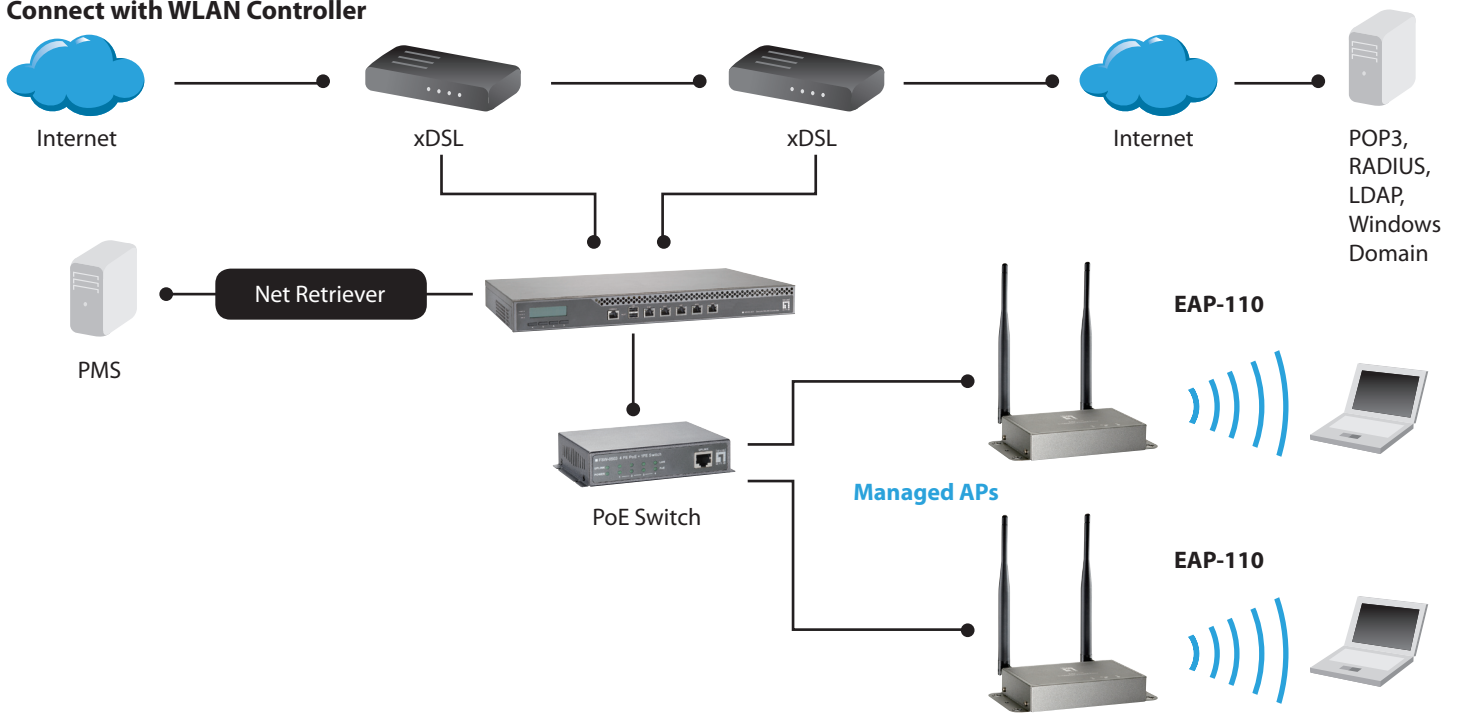
- Operation Temperature: -30 ~ 70 °C
- Storage Temperature: -40 ~ 85 °C
- Operation Humidity: 10% ~ 80% (Non-condensing)
- Storage Humidity: 5% ~ 90% (Non-condensing)

### Certifications

- FCC, CE
- RoHS compliant

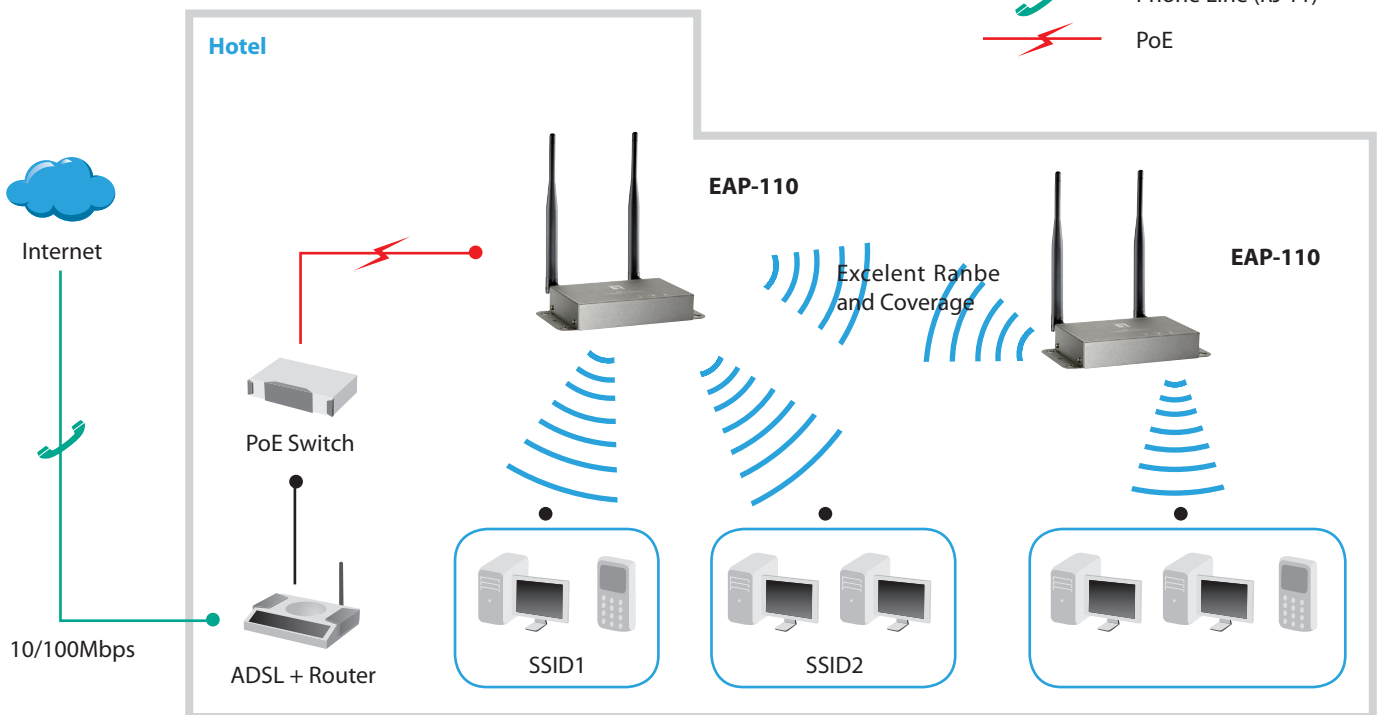
## Product Diagram

### Connect with WLAN Controller



### Connect in Repeater mode

- Ethernet Cable (RJ 45)
- Phone Line (RJ 11)
- PoE



## Order Information

### Package Content

### EAP-110: 300Mbps Wireless PoE Managed Access Point

EAP-110, CD-ROM (with User's Manual and QIG), Quick Installation Guide (QIG)  
Power Adapter (DC 5V), Antenna x 2

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