![LevelOne logo](level one)

300Mbps Wireless PoE Managed Access Point

EAP-110

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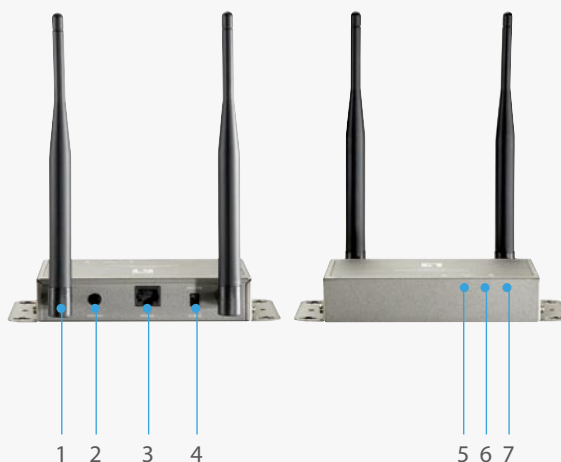
1. SMA Antenna Connector
2. WES / Reset button
3. LAN (PoE)
4. Power Jack (5VDC, 1A)
5. Power
6. WLAN / WES
7. LAN

1 2   3   4   5 6 7

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)

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
- Capable of performing RADIUS Accounting and Accounting Update
- Support Tunnelled AP Management with 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 × 10/100 Base-T Ethernet with PoE
- LED Indicators: 1 × Power, 1 × WLAN, 1 × 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
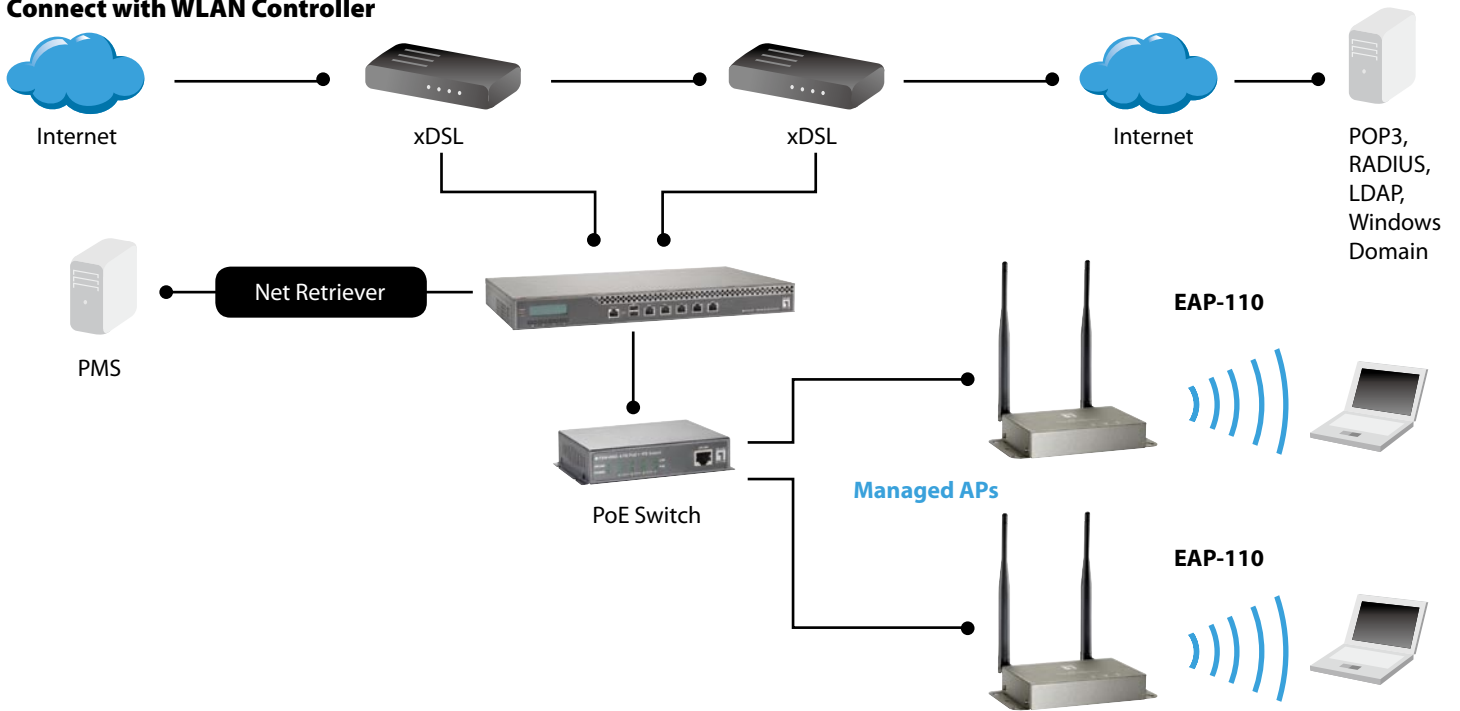 (6.5" x 3.6" x 1.2")
- Weight: 0.4 kg (0.83 lbs)

Environment
- Operation Temperature: -30 ~ 70 ℃
- Storage Temperature: -40 ~ 85 ℃
- Operation Humidity: 10% ~ 80% (Non-condensing)
- Storage Humidity: 5% ~ 90% (Non-condensing)
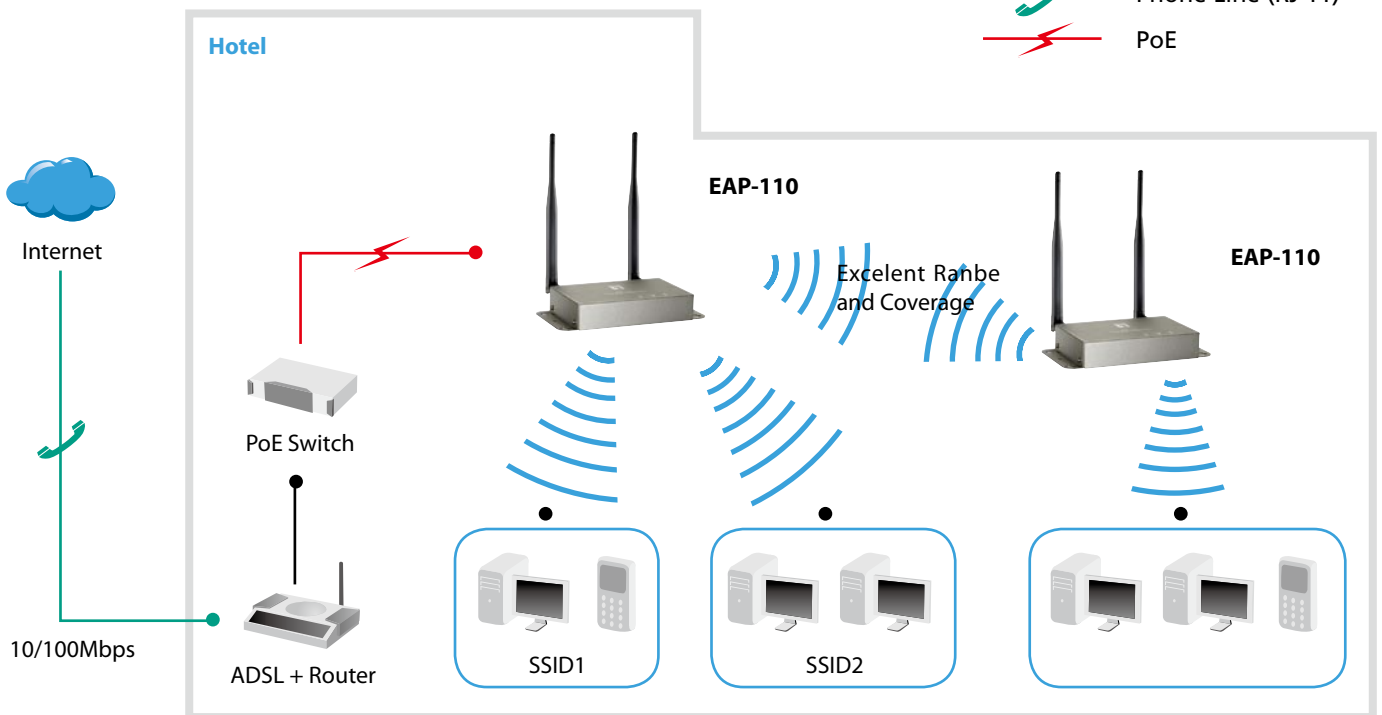
Certifications
- FCC, CE
- RoHS compliant

Product Diagram

Connect with WLAN Controller

Internet

xDSL

xDSL

Internet

POP3,
RADIUS,
LDAP,
Windows
Domain

PMS

Net Retriever

EAP-110

PoE Switch

Managed APs

EAP-110

Connect in Repeater mode

Ethernet Cable (RJ 45)

Phone Line (RJ 11)

PoE

Hotel

Internet

EAP-110

Excelent Ranbe
and Coverage

EAP-110

PoE Switch

SSID1

SSID2

10/100Mbps

ADSL + Router

Order Information	**EAP-110:** 300Mbps Wireless PoE Managed Access Point
Package Content	EAP-110, CD-ROM (with User's Manual and QIG), Quick Installation Guide (QIG)
	Power Adapter (DC 5V), Antenna x 2