level®one

300Mbps Wireless Dual-Band Gigabit PoE Managed Access Point

EAP-300

H/W Version: 1.1

Product Overview

The LevelOne EAP-300 Enterprise Access Point is designed for wireless connectivity in enterprise or industrial environments. It provides a IP50 dust-proof metal housing, embedded with dual-band 3T/3R MIMO technology on 2.4GHz and 5GHz frequency for wireless data rates of up to 300Mbps.
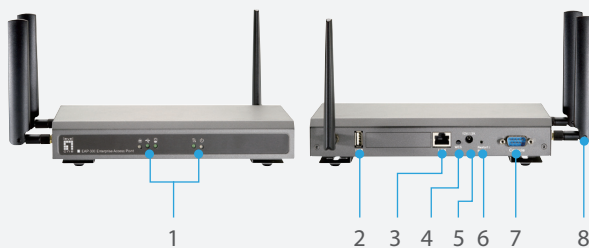
Supports data rates up to 300Mbps

EAP-300 complies with 802.11a/b/g/n standards for wireless speed up to 300Mbps. It provides a Gigabit PoE Ethernet interface and is an ideal solution for video surveillance and multimedia streaming applications. It features QoS and WMM to ensure the quality of voice and video applications for multiple transmissions simultaneously.

Supports AP Management

EAP-300 complies with all standards requirements of enterprise applications, including business grade security with WEP, WPA, WPA2, IEEE 802.1x. By pushing the WES (Press-and-Connect) button the EAP-300 can easily establish a WDS connection of multiple EAP-300s to increase the wireless network coverage. It features multiple ESSIDs with VLAN tags to separate network traffics; one EAP-300 can emulate up to 8 Virtual APs. EAP-300 supports centralized AP Management with LevelOne Secure WLAN Controllers WHG-xxx.

EAP-300 provides a higher throughput, security and durability and makes it a perfect choice for your wireless connectivity.

1. LED indicators
2. USB Port
3. PoE LAN Port
4. WES Button
5. Power Port
6. Reset Button
7. Console Port
8. Datachable Antenna
9. Wall-Mountable

Key Features

- 3 antennas with 3T/3R MIMO Technology for wireless data rates of up to 300Mbps
- Supports IEEE 802.11a/b/g/n Dual-Band wireless network interface
- Compatible with IEEE 802.3af PoE standard
- Supports Data Encryption and User Authentication with WEP, WPA, WPA2, IEEE 802.1x
- Enables Multiple Virtual APs and Client Isolation
- Easy configuration and management via web browser, SNMP
- Supports AP and Repeater modes, Class of Service and QoS
- Supports AP Management with LevelOne Secure WLAN Controllers WHG-xxx
- Supports WES push button for auto WDS connection
- Antenna type: 3dBi at 2.4GHz and 5dBi at 5GHz
- Wall mountable IP50 dust-proof Metal Housing

Works well with

WHG-505
Secure WLAN Controller

WHG-707
Secure WLAN Controller Ultimate

Technical Specification

Wireless Radio
- Standard
  IEEE 802.11a 5GHz
  IEEE 802.11b/g 2.4GHz
  IEEE 802.11n 2.4 and 5GHz
  IEEE 802.3af Power over Ethernet
- Frequency band: 2.4GHz and 5GHz
- Wireless architecture:
  (1) AP mode
  (2) WDS mode (Repeater / Bridge)
- 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) 802.11a: 6 ~ 54 Mbps
  (2) 802.11b: 1 ~ 11 Mbps
  (3) 802.11g: 6 ~ 54 Mbps
  (4) 802.11n: 6.5 ~ 300Mbps
- Transmit Power:
  (1) 802.11a: up to 16dBm
  (2) 802.11b: up to 18dBm
  (3) 802.11g: up to 18dBm
  (4) 802.11n: up to 16dBm
- Receiver Sensitivity:
  (1) 802.11a: 54Mbps@-68dBm
  (2) 802.11b: 11Mbps@-88dBm
  (3) 802.11g: 54Mbps@-74dBm
  (4) 802.11n: 300Mbps@-68dBm

Antenna
- Dual Band Antenna: 3
  (1) 3dBi at 2.4GHz
  (2) 5dBi at 5GHz
  Detachable with SMA connectors

QoS-WMM
- DiffServ/TOS
- IEEE 802.1p/COS
- IEEE 802.1Q Tag VLAN priority control
- IEEE 802.11e WMM

Handover & Roaming
- IEEE 802.11f IAPP
- IEEE 802.11i pre-auth (PMKSA cache)

Security
- WEP (64/128/152 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
- 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-button-click to restore factory default setting
- Firmware upgrade
- WES (Press-and-Connect) button for WDS Easy Setup

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 VAP: 128
- Setting for maximum number of associated clients
- Network policy based on ESSID

Hardware Specifications
- IP50 Dust proof metal case
- LAN Port: 1 × 10/100/1000 Base-T Ethernet with PoE
- Console Port: 1 x DB9
- USB port: 1
- WES push button: 1
- LED Indicators:
  1 x Power, 1 x LAN, 1 x WLAN, 1 x WES, 1 x USB

Physical and Power
- Power:
  (1) DC Output: 12V / 2A
  (2) 802.af PoE (PSE not included)
- Form factor: wall mountable mini-book
- Dimensions (W x D x H): 8.7" x 5" x 1.3"
                          (220 mm x 127 mm x 33 mm)
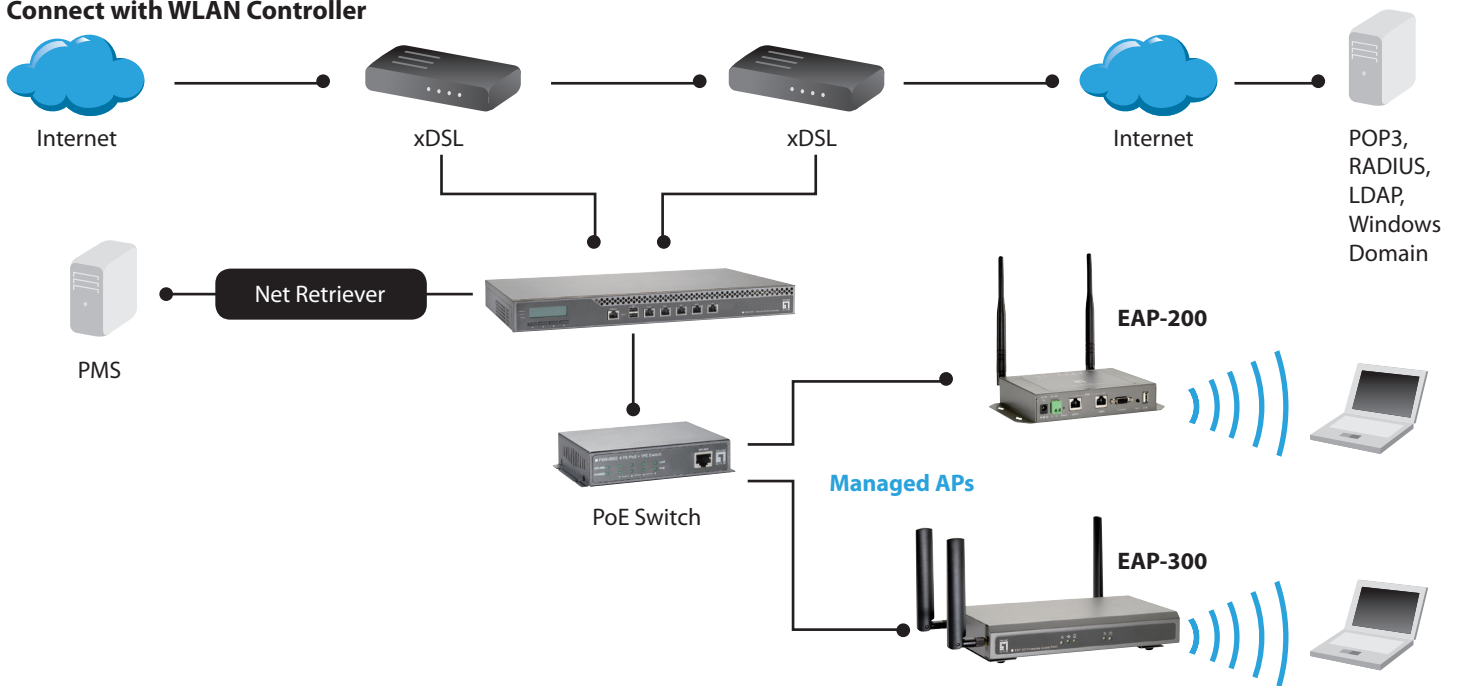- Weight: 1.8 lbs (0.82 kg)

Environment
- Operation Temperature: -30°C ~ +70°C (-22 ~158 °F)
- Storage Temperature: -40°C ~ +85°C (-40~185 °F)
- Operation Humidity: 10% ~ 80% (Non-condensing)
- Storage Humidity: 5% ~ 90% (Non-condensing)
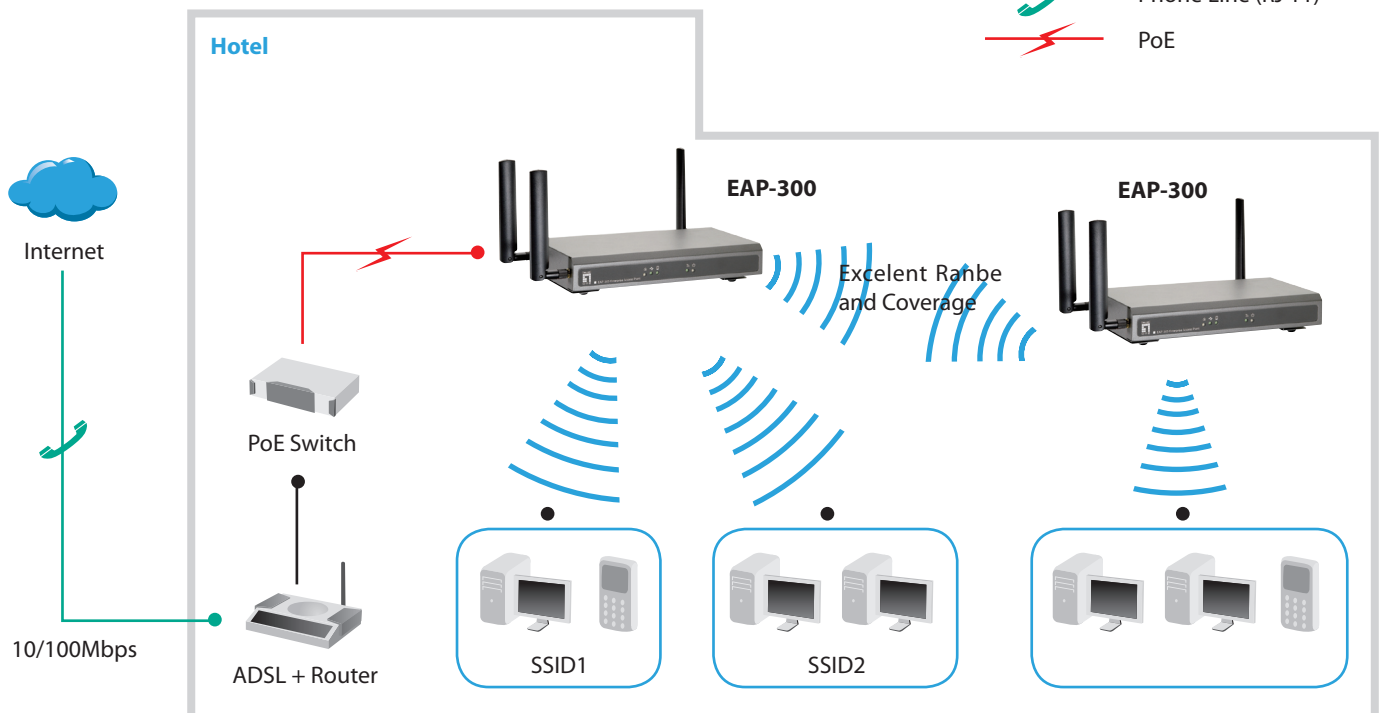
Certifications
- FCC, CE
- RoHS compliant

Product Diagram

Connect with WLAN Controller

Internet

xDSL

xDSL

Internet

POP3,
RADIUS,
LDAP,
Windows
Domain

PMS

Net Retriever

EAP-200

Managed APs

PoE Switch

EAP-300

Connect in Repeater mode

Ethernet Cable (RJ 45)

Phone Line (RJ 11)

PoE

Hotel

Internet

EAP-300

EAP-300

PoE Switch

Excelent Ranbe
and Coverage

10/100Mbps

ADSL + Router

SSID1

SSID2

Order Information   **EAP-300:** 300Mbps Wireless Dual-Band Gigabit PoE Managed Access Point

Package Content   EAP-300, CD Manual/QIG, Quick Installation Guide (QIG), Power Adapter
                          Antenna x 3, Console Cable, Ethernet Cable