



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 EAP260 Enterprise Access Point** is designed for wireless connectivity in enterprise or industrial environments of all dimensions.



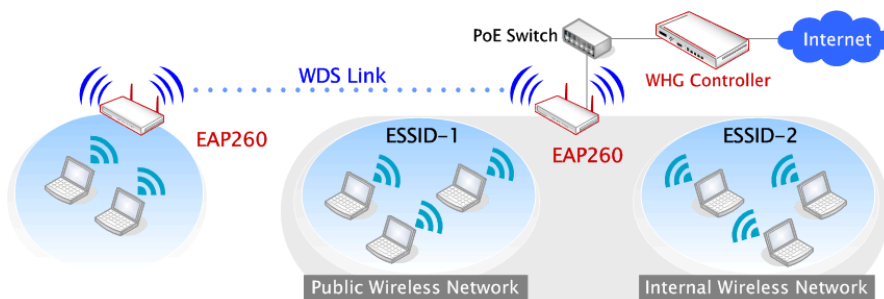
EAP260 makes the wireless communication fast, secure and easy. It supports business grade security such as 802.1X, and Wi-Fi Protected Access (WPA and WPA2). By pushing a purposely built button, **4ipWES (Press-n-Connect)** feature makes it easy to bridge wireless links of multiple EAP260s for forming wider wireless network coverage. EAP260 also features multiple ESSIDs with VLAN tags; one EAP260 can emulate up to eight Virtual APs, great for enterprise applications, such as separating the traffics of different departments using different ESSIDs.

More importantly, EAP260 offers a valuable feature "Channel Analysis" where an IT operator can effortlessly carry out a real-time wireless environment analysis before deploying. With just some clicks of the buttons, device activity, possible wireless interference, as well as channel density are clearly displayed. Administrator is thus able to bear the result in mind, picking up the right channel for his/her access point. In this way, AP deployment becomes rather time-efficient.

EAP260 can be deployed independently as a fat AP, or managed by a 4ipnet Access Controller as a thin AP. Furthermore, it can also support overlay deployment, extending an Access Controller's internal network securely over the internet via tunnels.

Supporting up to 300Mbps wireless speed with its 802.11n 2 x 2 MIMO solutions, EAP260 is perfect for bandwidth-hungry applications such as video surveillance, multimedia streaming over the wireless links. Its QoS – WMM feature ensures the quality of voice/ video when multiple applications are transmitting media and data over the air at the same time.

EAP260'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 & IEEE 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

Channel Analysis

- Clear channel visibility into the 2.4GHz band
- Channel usage analysis (2.4GHz)
- Channel interference detection (2.4GHz)
- Helping admin set up an EAP260 with more suitable parameters
- Detection of external interfering sources

IGMP Snooping

- Minimizes unnecessary multicast or broadcast messages being transmitted over the air.
- A perfect solution to wireless environments with a high density of users.
- Facilitates video and voice data streaming

WDS for Extending Wireless Coverage

- 4ipWES (Press-n-Connect) with push button enables quick/auto WDS link
- Creates structural WDS (Repeater / Bridge) links connecting to other WDS-capable APs
- WDS links can serve as EAP260's LAN connections to replace Ethernet ports, or simply bridge the wired side and the wireless side as a single network

Supporting QoS & 802.11e WMM

- Supports IEEE 802.1p/IEEE 802.1Q Quality of Service (QoS) tagging features
- Supports IEEE 802.11e Wireless Multi-Media to fulfill bandwidth thirsty triple-play (voice, audio and video) applications

Ethernet LAN Port Mapping

- To tag Ethernet LAN traffic with a various VLAN IDs so that the traffic can be directed to different virtual zones (Service Zones).
- Reduces the number of layer 2 switches.

Business-class WLAN Security & Client Authentications

- Advanced security options: 64/128/152 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

Multiple Virtual APs & Capability of Client Isolation

- One EAP260 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

- EAP260 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 EAP260 can enjoy the network service provided by the remote 4ipnet Secure WLAN Controller

Wall mountable Dust-proof Metal Housing

- Enclosed in a metal housing, durable and non-fire hazard for the industrial environment

PoE with Gigabit Ethernet

- 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
- All 10/100/1000 Base-T Ethernet ports, where additional LAN ports could also be used to provide managed network service via tunneled AP Management

SPECIFICATIONS

Wireless Radio

- Frequency band: 2.4 GHz
- 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) 802.11b: 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@-88 dBm
 - (2) 802.11g: 54Mbps@-74 dBm
 - (3) 802.11n: 300Mbps@-68 dBm
- IGMP Snooping
- Proxy ARP

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)

System Management

- Web-based administration
- SNMP v1/v2c
- Provides Event Log
- SYSLOG information support
- Statistics
- Configuration backup and restore
- Restore to factory default setting via Web or Console
- Firmware upgrade
- Capable of performing RADIUS Accounting and Accounting Update
- 4ipWES (Press-n-Connect) button for WDS Easy Setup
- Support Tunneled AP Management with 4ipnet Secure WLAN Controllers
- Ethernet LAN Port Mapping (With a 4ipnet controller)
- IPv6*
- Channel Analysis in the 2.4GHz Band

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
- 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 AP: 128
- Setting for maximum number of associated clients

Hardware Specifications

- IP50 Dust-proof metal case
- Uplink Port: 1 x 10/100/1000 Base-T PoE with IEEE 802.3af PoE
- LAN Port: 4 x 10/100/1000 Base-T
- Console Port: 1 x DB9M
- USB Port: 1
- LED Indicators: 1 x Power, 1 x Status, 1 x WLAN, 1 x Uplink, 4 x LAN, 1 x WES, 1 x USB
- Kensington Lock

Physical and Power

- Power adaptor (included)
 - (1) AC Input: 100~240 VAC, 50~60 Hz
 - (2) DC Output: 5V, 2A
- Alternative Power:
 - (1) 802.3af 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: 2.0 lbs (0.87 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 EAP260 x 1
- CD-ROM (with User's Manual and QIG) x 1
- Quick Installation Guide (QIG) x 1
- Power Adapter (DC 5V) x 1
- Detachable Antenna x 2
- Console Cable x 1
- Ethernet Cable x 1

* So far EAP260 only supports IPv6 for Web services
** Specifications subject to change without notice