

WAP5110

802.11n Dual-Band Wireless Access Point



Product Overview

The WAP5110 is an indoor 802.11a/b/g/n dual-band, dual-radio enterprise AP with a 2x2 MIMO antenna configuration. Through its Gigabit Ethernet port the 802.11n dual-band wireless AP can connect to the backbone network. The WAP5110 supports 802.3af PoE, which enables the AP to be powered remotely by a PoE switch. An AC power adapter option is also included for locations where PoE is not available.

Key Features and Benefits

Wireless 802.11n Technology

Using 802.11n MIMO (Multiple Input Multiple Output) wireless technology, the AP supports two transmitting and two receiving antennas that extend range and increase the throughput by up to nine times that of existing Wi-Fi.

Full Management Capabilities

The WAP5110 supports Simple Network Management Protocol (SNMP v1/v2c/v3), including MIB II and MIB I. The IEEE 802.1X authentication protocol supports Extensible Authentication Protocol (EAP) MD5, Transport Layer Security (TLS), Protected EAP (PEAP), Tunnelled TLS (TTLS), EAP-SIM, and EAP-AKA.

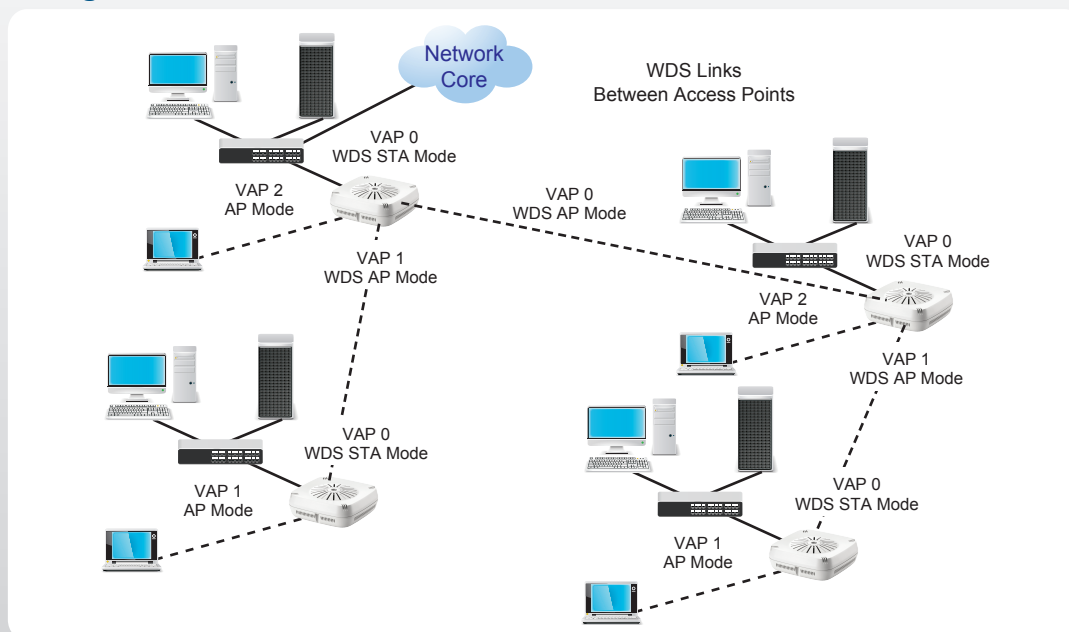
Advanced Traffic Management

Support for up to sixteen Virtual Access Point (VAP) interfaces per radio, which allows traffic to be separated for different user groups within the same service area. Each radio can support up to 100 wireless clients, shared between all VAPs, whereby the clients associate with each VAP in the same way as they would with physically separate APs. This means that each VAP can be configured with its own Service Set Identification (SSID), security settings, VLAN assignments, and other parameters, allowing the AP to serve a diverse range of client needs from a single unit.

Dual-Band Access Point

Easy on your budget and simple to install, the AP uses dynamic rate shifting to automatically match the best connection speed, keeping users connected to the network even while roaming.

Application Diagram



Features

Physical Features

- One 10/100/1000BASE-T Gigabit Ethernet (RJ-45) port with 802.3af-compliant Power over Ethernet (PoE) support
- One console port with an RJ-45 connector
- Two LEDs: Power/Diag, WLAN1/WLAN2/LAN
- Four embedded omni antennas
- PoE 802.3af compliant

Standards

- IEEE 802.11n 2.4 GHz and 5.0 GHz
- IEEE 802.11a 5.0 GHz
- IEEE 802.11b/g, 2.4 GHz
- IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
- IEEE 802.3af Power over Ethernet (PoE)
- IEEE 802.11h Regulatory Domain Selection
- Wi-Fi Multimedia (WMM)
- Wireless Distribution System (WDS)

Wireless Frequency

- 802.11g/n:
 - 2.4 ~ 2.4835 GHz (US, Canada)
 - 2.4 ~ 2.4835 GHz (ETSI, Japan)
- 802.11b:
 - 2.4 ~ 2.4835 GHz (US, Canada)
 - 2.4 ~ 2.4835 GHz (ETSI)
 - 2.4 ~ 2.497 GHz (Japan)
- 802.11a/n:
 - 5.15 ~ 5.25 GHz (lower band) US/Canada, Europe, Japan
 - 5.25 ~ 5.35 GHz (middle band) US/Canada, Europe, Japan
 - 5.725 ~ 5.825 GHz (upper band) US/Canada
 - 5.50 ~ 5.70 GHz Europe

Wireless Features

- VAP (Virtual Access Point) support with up to 16 SSIDs
- Operation modes: AP Mode, Point-to-Point WDS, Point-to-Multiple points WDS, WDS With AP
- Transmit power adjustment
- IEEE 802.11h DFS/DFS2 and automatic TPC
- Traffic Control for each SSID
- Band Preference for same SSID services on dual band
- Dynamic Channel Selection for noisy environment
- Rate Selection to disable low data rate access
- Client connection preemption (n > ag > b) in case service capability is full
- Auto-channel selection

Security

- WEP 64/128-bits
- Wi-Fi Protected Access (WPA/WPA2)
- WPA/WPA2 (PSK) over WDS
- Secure SSH (Secure Sockets Shell), Telnet
- Secure Sockets Layer (SSL) remote management login
- HTTPS
- Access control list
- RADIUS authentication
- EAP-MD5, EAP-TLS, EAP-TTLS, PEAP, EAP-SIM, and EAP-AKA
- SSID broadcast disable

Network Management

- Industrial CLI (Command Line Interface)
- Telnet, SSH
- Web-based Management (HTTP and HTTPS)
- SNMP management v1/v2c/v3
- Software download and upgrade by TFTP, FTP, or HTTP
- Configuration file backup and restore by TFTP or FTP
- System Information – AP status, station status, event logs
- Dual image
- SNTP
- Country selection
- Scheduling Rebooting
- Radius Accounting
- IPv4 and IPv6 dual stack support
- Link Integrity to disable WiFi service while uplink is not available

Antenna

- Type: PCB type
- Gain: 2dBi in 2.4GHz, 3dBi in 5GHz

Regulatory Compliance

- FCC Part 15 Subpart B
- CE

Radio Signal Certification

- FCC Part 15C 15.247, 15.207 (2.4GHz)
- EN 300 328
- EN 301 489-1
- EN 301 489-17
- NCC (Taiwan)

Mechanical

- Dimensions: 14 x 14 x 4.8 cm (5.51 x 5.51 x 1.88 in.)
- Weight: 1.12 lbs (0.51 kg)

Power

- Input: 100 or 240 VAC, 50-60 Hz
- Output: 48 V/0.38 A
- Power Consumption: 10.56 W maximum

Environmental Specification

- Temperature:
 - Standard Operating: 0°C to 40°C (32°F to 104°F)
 - Storage: -20°C to 70°C (-4°F to 158°F)
- Humidity: 15% to 95% (non-condensing)

Warranty

- Please check www.smc.com for the warranty terms in your country/region.

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Contact



Edge-Core Networks Corporation

Worldwide Corporate and Sales Headquarters

No. 1 Creation Road III,
Hsinchu Science Park,
30077, Taiwan, R.O.C.
Tel: +886 3 5638888 Fax: +886 3 6686111

Singapore

15 Enggor Street
#10-04, Realty Centre
Singapore 079716
Tel: 65-63387667 Fax: 65-63387767

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