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) MDS, Transport Layer Security (TLS), Protected EAP (PEAP), Tunneled 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: 10% 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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