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WLAN Access Point 8120

Overview

The WLAN Access Point 8120 is a high performance 802.11n, Dual Radio, Two Spatial Stream, Multiple Input / Multiple Output (MIMO) access point. It is part of the Avaya WLAN 8100 series portfolio, a complete enterprise grade WLAN solution, which combines the latest industry 802.11n standard with a new truly-unified wired/ wireless architecture. The WLAN 8100 series enables enterprises to achieve new levels of workforce productivity, operational efficiency and reliability that are needed in the emerging Unwired Enterprise era.

The WLAN AP 8120 is centrally controlled by the WLAN 8100 Controllers and provides wireless service for mobile clients, including legacy 802.11 a/b/g clients. The Access Points are managed centrally by the WLAN 8100 Management System.

High Performance

- Simultaneous dual band operation (2.4 GHz and 5 GHz)
- Two Spatial Streams with up to 300Mbps bandwidth per radio
- Strong VoWLAN performance
- VoWLAN E-911 Support
- Facilitates moving data plane to core/edge switches
- Works with existing or emerging power standards (802.3af, 802.3at)
- Full performance with 802.3af POE
- 1 Gigabit Ethernet uplink port
- 16 SSID's per Radio for flexible service delivery

Simple Installation

- Ideal Access Point locations are determined by WLAN Planning Software and mapped on floor plan
- Access Points find WLAN Controller upon installation and download configuration
- Connection to WLAN Controller at Layer 2 or 3

Resiliency and QoS for Voice and Multimedia Applications

- AP classifies traffic into multiple user and group queues
- Call Admission Control support
- WMM, UAPSD, TSPEC (802.11e) Certified

RF Security

- Performs automated RF scans to detect rogue APs and RF attacks; assists controller in coordinated threat mitigation
- 802.11i/WPA/WPA2 Security
- Performs symmetrical cryptography locally for best performance

Mechanical Specifications	• Size: 8” (long) x 5.5” (wide) x 2” (thick) • Weight: 2 lbs • Operating Temperature: 0° C to +40° C • Storage Temperature: -25° C to 70° C • Humidity: 10 to 90 percent non-condensing
Standards Compliance	• IEEE 802.11 • IEEE 802.11a • IEEE 802.11b • IEEE 802.11d • IEEE 802.11h • IEEE 802.11g • IEEE 802.11n • IEEE 802.11i • IEEE 802.11e • IEEE 802.3a
Safety and Electromagnetic Compliance	• UL 60950-1, CAN/CSA - C22.2 No.60950-1, IEC 60950-1 • FCC Part 15, Subpart B, ICES 003, EN55022/24 Class B • FCC Part 15C (DTS), FCC Part 15E (UNII), RSS-210 Issue 7 • ETSI EN 300-328 (ERM), ETSI EN 301-893 (BRAN) • ETSI EN 301-489-1/17 (ERM/EMC) • R&TTE Directive 1999/5/EC
Encryption	• Advanced Encryption Standard (AES) • Wi-Fi Protected Access (WPA/WPA2) • Wired-Equivalent Privacy (WEP)
General	• Each radio will support 200 simultaneous associations • 16 SSID per radio, up to 32 per access point
802.11a Radio Specifications	• Frequency band: 5.15 - 5.25 GHz, 5.25 - 5.35 GHz, 5.470 - 5.725 GHz and 5.725 - 5.85 GHz, based on country regulations • Operating channels: Based on the country of operation; AP SKU dependent • Association rates 54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, and 6 Mbps, with automatic fallback • Modulation: Orthogonal frequency division multiplexing (OFDM) • Transmit power: Based on the country of operation; AP SKU dependent
802.11b Radio Specifications	• Frequency band: 2.4 GHz to 2.4835 GHz based on country regulations • Operating channels: Based on the country of operation; AP SKU dependent • Association rates: 11 Mbps, 5.5 Mbps, 2 Mbps, and 1 Mbps, with automatic fallback • Modulation: BPSK, QPSK, CCK • Transmit power: Based on the country of operation; AP SKU dependent • Antenna type: Integrated omnidirectional with (3) radiating elements to allow for the use of diversity
802.11g Radio Specifications	• Frequency band 2.4 GHz to 2.4835 GHz based on country regulations • Operating channels: Based on the country of operation; AP SKU dependent • Association rates: 54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, and 6 Mbps, with automatic fallback • Modulation: Orthogonal frequency division multiplexing (OFDM) • Transmit Power: Based on the country of operation; AP SKU dependent • Antenna type: Integrated omnidirectional with (3) radiating elements to allow for the use of diversity
802.11n Radio Specifications	• Frequency “band” both 2.4 and 5 GHz bands based on country regulations • Operating channels: Based on the country of operation; AP SKU dependent • Association rates: MCS 0-15 and MCS 32 modulation and coding rates as specified in P802.11n for both 20 MHz and 40 MHz channels (6.5 to 300 Mbps) • Modulation: MCS 0-15 and MCS 32 modulation and coding rates in P802.11n • Transmit Power: Based on the country of operation; AP SKU dependent • Antenna type: Integrated omni-directional with (3) radiating elements
Mounting Options	• Universal Wall Mounting plate • 15/16” and 5/8” suspended ceiling rail mounting
Powering	• Fully compliant IEEE 802.3af or 802.3at power injector or PSE (Power Sourcing Equipment)

Learn More

For more information, contact Avaya or an Avaya Channel Partner or visit **avaya.com**.

About Avaya

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