



The Power of We™

WLAN Access Point 8120/8120-E

The WLAN Access Point 8120/8120-E is a high performance 802.11n 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.



WLAN 8120

Overview

The WLAN Access Point 8120/8120-E is a high performance 802.11n, Dual Radio, Two Spatial Stream, Multiple Input / Multiple Output (MIMO) access point. The WLAN Access Point 8120 has an integrated antenna and the WLAN Access Point 8120-E is plenum rated for use with external antennas.

The WLAN AP 8120/8120-E 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 – Supports up to 40% more voice calls per Access Points than other WLAN vendors
- Emergency Services Location Support – identifies precise location of emergency calls (E-911 in US & equivalent in other regions)
- 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

- 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

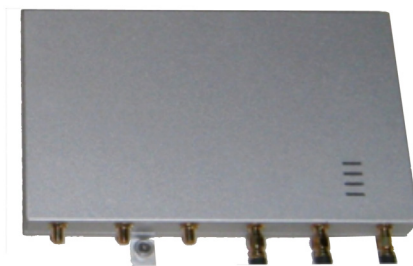
- AP classifies traffic into multiple user and group queues
- Advanced Call Admission Control support
- WMM, UAPSD, TSPEC (802.11e) Certified

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

Learn More

For more information, contact your Avaya Account Manager or an Avaya Authorized Partner or visit avaya.com.



WLAN 8120-E

	WLAN AP 8120	WLAN AP 8120-E
Description	Indoor 2 radio, 802.11n Access Point with integrated antenna. Plastic enclosure.	Indoor, Plenum rated (UL 2043 compliant), 2 radio, 802.11n AP for use with external antennas. Metal enclosure and 6 SMA-RP connectors for connections to external antennas. (This product is certified for indoor deployment only. Do not install or use this product outdoors)
Mounting Options	<ul style="list-style-type: none"> • Universal Wall Mounting plate • 15/16" and 5/8" suspended ceiling rail mounting 	<ul style="list-style-type: none"> • AP is Universal Wall Mounting plate • AP is 15/16" and 5/8" suspended ceiling rail mounting. • Antenna is Wall or Pole Mounted. Mounting kit comes with antenna.
Antenna Type	Integrated omni-directional with (3) radiating elements	No integrated Antenna. Two External Indoor/Outdoor Antennas supported: <ul style="list-style-type: none"> • 70o directional 3-MIMO Antenna (Two 70o Antenna required per AP 8120-E) • 180o directional 6-MIMO (Specifications are the same as the internal antenna used in the AP 8120, but in a separate enclosure and with six 3' cables) Optional 10' extension coax cables available.
Mechanical Specifications	<ul style="list-style-type: none"> • Size: 8" (long) x 5.5" (wide) x 2" (thick) (20.3cm x 14cm x 5cm) • Weight: 2 lbs (0.9kilograms) • Operating Temperature: 0° C to +40° C (32F to 104F) • Storage Temperature: -25° C to 70° C (-13F to 158F) • Humidity: 10 to 90 percent non-condensing 	
Standards Compliance	<ul style="list-style-type: none"> • IEEE 802.11 • IEEE 802.11a • IEEE 802.11b • IEEE 802.3a • IEEE 802.11d • IEEE802.11h • IEEE 802.118 • IEEE802.11n • IEEE 802.11i • IEEE802.116 	
Safety and Electromagnetic Compliance	<ul style="list-style-type: none"> • 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 • Immunity & Safety 60601-1-2 	
Encryption	<ul style="list-style-type: none"> • Advanced Encryption Standard (AES) • Wi-Fi Protected Access (WPA/WPA2) • Wired-Equivalent Privacy (WEP) 	
Powering	<ul style="list-style-type: none"> • Fully compliant IEEE 802.3af - using PSE (Power Sourcing Equipment) or power injector. 	
General	<ul style="list-style-type: none"> • Each radio will support 200 simultaneous associations • 16 SSID per radio, up to 32 per access point 	

	WLAN AP 8120		WLAN AP 8120-E	
802.11a 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 <ul style="list-style-type: none"> • 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) 			
802.11b Radio Specifications	Frequency band: 2.4 GHz to 2.4835 GHz based on country regulations <ul style="list-style-type: none"> • 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 			
802.11g Radio Specifications	Frequency band 2.4 GHz to 2.4835 GHz based on country regulations <ul style="list-style-type: none"> • 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) 			
802.11n Radio Specifications	Frequency "band" both 2.4 and 5 GHz bands based on country regulations <ul style="list-style-type: none"> • 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 			
Receive Sensitivity	2.4 GHz Legacy <ul style="list-style-type: none"> • -88dBm@ 6 Mb/s • -74dBm@ 54 Mb/s 		5.0 GHz Legacy <ul style="list-style-type: none"> • -86dBm@ 6 Mb/s • -72dBm@ 54 Mb/s 	
	2.4 GHz 802.11n (HT 20) <ul style="list-style-type: none"> • -87dBm@MCS0 • -73dBm@MCS7 	2.4 GHz 802.11n (HT 40) <ul style="list-style-type: none"> • -86dBm@MCS0 • -70dBm@MCS7 	5.0 GHz 802.11n (HT 20) <ul style="list-style-type: none"> • -85dBm@MCS0 • -70dBm@MCS7 	5.0 GHz 802.11n (HT 40) <ul style="list-style-type: none"> • -83dBm@MCS0 • -67dBm@MCS7
Maximum Transmit Power (at 25c) Note: The maximum power setting will vary by channel and according to individual country regulations.	2.4GHz <ul style="list-style-type: none"> • 802.11b 21.4dBm • 802.11g 21.5dBm • 802.11n (HT20) 21.5dBm • 802.11n (HT40) 19.7dBm 		5.0GHz <ul style="list-style-type: none"> • 802.11a 18.5dBm • 802.11n (HT20) 17.5dBm • 802.11n (HT40) 16dBm 	

About Avaya

Avaya is a global provider of business collaboration and communications solutions, providing unified communications, contact centers, data solutions and related services to companies of all sizes around the world. For more information please visit www.avaya.com.

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