Cisco Aironet 1260 Series Access Point

Performance and Flexibility for Challenging RF Environments
- Nine times faster than 802.11a/g networks
- ClientLink improves reliability and coverage for legacy clients
- BandSelect improves 5-GHz client connections in mixed client environments
- VideoStream uses multicast to improve rich-media applications

Rugged Metal Housing and Extended Operating Temperature
- Ideal for factories, warehouses, and other industrial environments
- Supports external antennas for a variety of RF environments and deployment scenarios
- UL 2043 plenum-rated for above ceiling installation options or suspended from drop ceilings

Easy Installation and Power Efficient
- 802.11n performance with existing PoE switches
- Sleek design blends into a variety of indoor environments

Easy-to-Install, Multipurpose Mounting Bracket
- Designed for easy replacement of existing access points
- Locks for theft protection

Simplified Network Management
- Controller-based or standalone deployment options

Secure Connections
- Supports rogue access point detection and denial-of-service attacks
- Management frame protection detects malicious users and alerts network administrators

Greater Network Capacity
- Dynamic frequency selection 2 (DFS-2) compliant

Cisco® Aironet® 1260 Series wireless access points provide reliable and predictable 802.11n wireless coverage for indoor environments. These enterprise-class access points deliver up to nine times the throughput of 802.11a/g networks for rich-media applications. Designed specifically for challenging environments, the 1260 Series supports external antennas and a broad operating-temperature range.

RF Excellence

Building on the Cisco Aironet heritage of RF excellence, the 1260 Series delivers industry-leading performance for secure and reliable wireless connections. Enterprise-class silicon and optimized radios deliver a robust mobility experience using Cisco M-Drive technology, which includes:

- ClientLink improves reliability and coverage for legacy clients
- BandSelect improves 5-GHz client connections in mixed client environments
- VideoStream uses multicast to improve rich-media applications

All of these features ensure the best possible end-user experience on the wireless network.

Cisco also offers the industry's broadest selection of 802.11n antennas, delivering optimal coverage for a variety of deployment scenarios.

The Cisco Aironet 1260 Series is a component of the Cisco Unified Wireless Network, which can scale up to 18,000 access points with full Layer 3 mobility across central or remote locations on the enterprise campus, in branch offices, and at remote sites. The Cisco Unified Wireless Network is the industry's most flexible, resilient, and scalable architecture, delivering secure access to mobility services and applications and offering the lowest total cost of ownership and investment protection by integrating seamlessly with the existing wired network.

Product Specifications

Table 1 lists the product specifications for Cisco Aironet 1260 Series Access Points.

Table 1. Product Specifications for Cisco Aironet 1260 Series Access Points

Item	Specification
Part Numbers	**Cisco Aironet 1260 Series Access Point** **Controller-based access point** **Indoor, challenging environments, with external antennas** • AIR-LAP1262N-x-K9 - Dual-band Controller-based 802.11 a/g/n • AIR-LAP1261N-x-K9 - Single-band Controller-based 802.11 g/n • AIR-AP1262N-x-K9 - Dual-band Standalone 802.11 a/g/n • AIR-AP1261N-x-K9 - Single-band Standalone 802.11 g/n • AIR-LAP1262N-xK910 - Eco-pack (dual-band 802.11a/g/n) 10 quantity Controller-based access points • AIR-AP1262N-xK9-5 - Eco-pack (dual-band 802.11a/g/n) 5 quantity Standalone access points **SMARTnet Services** • CON-SNT-LAP1262x - SMARTnet 8x5xNBD 1260 Series access point (dual-band 802.11 a/g/n) • CON-SNT-LAP1261x - SMARTnet 8x5xNBD 1260 Series access point (single-band 802.11 g/n) • CON-SNT-LAP1262x - SMARTnet 8x5xNBD 10 quantity eco-pack 1260 Series access point (dual-band 802.11a/g/n) **Cisco Wireless LAN Services** • AS-WLAN-CNSLT - Cisco Wireless LAN Network Planning and Design Service • AS-WLAN-CNSLT - Cisco Wireless LAN 802.11n Migration Service • AS-WLAN-CNSLT - Cisco Wireless LAN Performance and Security Assessment Service **Regulatory domains: (x = regulatory domain)** Customers are responsible for verifying approval for use in their individual countries. To verify approval and to identify the regulatory domain that corresponds to a particular country, please visit: http://www.cisco.com/go/aironet/compliance Not all regulatory domains have been approved. As they are approved, the part numbers will be available on the Global Price List.
Software	• Cisco Unified Wireless Network Software Release 7.0 or later • Cisco IOS® Software Release 12.4(25d)JA
802.11n Version 2.0 (and Related) Capabilities	• 2x3 multiple-input multiple-output (MIMO) with two spatial streams • Maximal ratio combining (MRC) • Legacy beamforming • 20- and 40-MHz channels • PHY data rates up to 300 Mbps • Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) • 802.11 dynamic frequency selection (DFS) • Cyclic shift diversity (CSD) support
Data Rates Supported	**802.11a: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps** **802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps** **802.11n data rates (2.4 GHz and 5 GHz):**

MCS Index[1]	GI[2] = 800 ns		GI = 400 ns	
	20-MHz Rate (Mbps)	40-MHz Rate (Mbps)	20-MHz Rate (Mbps)	40-MHz Rate (Mbps)
0	6.5	13.5	7.2	15
1	13	27	14.4	30
2	19.5	40.5	21.7	45
3	26	54	28.9	60
4	39	81	43.3	90

[1] MCS Index: The Modulation and Coding Scheme (MCS) index determines the number of spatial streams, the modulation, the coding rate, and data rate values.
[2] GI: A guard interval (GI) between symbols helps receivers overcome the effects of multipath delays.

Item	Specification				
	5	52	108	57.8	120
	6	58.5	121.5	65	135
	7	65	135	72.2	150
	8	13	27	14.4	30
	9	26	54	28.9	60
	10	39	81	43.3	90
	11	52	108	57.8	120
	12	78	162	86.7	180
	13	104	216	115.6	240
	14	117	243	130	270
	15	130	270	144.4	300
Frequency Band and 20-MHz Operating Channels	**A (A Regulatory Domain):** • 2.412 to 2.462 GHz; 11 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz, 8 channels (excludes 5.600 to 5.640 GHz) • 5.745 to 5.825 GHz; 5 channels **C (C Regulatory Domain):** • 2.412 to 2.472 GHz; 13 channels • 5.745 to 5.825 GHz; 5 channels **E (E Reg Domain):** • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz, 8 channels (excludes 5.600 to 5.640 GHz) **I (I Regulatory Domain):** • 2.412 to 2.472 GHz, 13 channels • 5.180 to 5.320 GHz; 8 channels **K (K Regulatory Domain):** • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.620 GHz, 7 channels • 5.745 to 5.805 GHz, 4 channels			**N (N Regulatory Domain):** • 2.412 to 2.462 GHz; 11 channels • 5.180 to 5.320 GHz; 8 channels • 5.745 to 5.825 GHz; 5 channels **Q (Q Regulatory Domain):** • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz; 11 channels **S (S Regulatory Domain):** • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.745 to 5.825 GHz; 5 channels **T (T Regulatory Domain):** • 2.412 to 2.462 GHz; 11 channels • 5.280 to 5.320 GHz; 3 channels • 5.500 to 5.700 GHz, 11 channels • 5.745 to 5.825 GHz; 5 channels	
Note: Customers are responsible for verifying approval for use in their individual countries. To verify approval and to identify the regulatory domain that corresponds to a particular country, please visit: http://www.cisco.com/go/aironet/compliance.					
Maximum Number of Nonoverlapping Channels	**2.4 GHz** • 802.11b/g: ◦ 20 MHz: 3 • 802.11n: ◦ 20 MHz: 3			**5 GHz** • 802.11a: ◦ 20 MHz: 21 • 802.11n: ◦ 20 MHz: 21 ◦ 40 MHz: 9	
Note: This varies by regulatory domain. Refer to the product documentation for specific details for each regulatory domain.					

Item	Specification			
Receive Sensitivity	**802.11b (Complementary Code Keying [CCK])** -101 dBm @ 1 Mb/s -98 dBm @ 2 Mb/s -92 dBm @ 5.5 Mb/s -89 dBm @ 11 Mb/s	**802.11g (non HT20)** -92 dBm @ 6 Mb/s -92 dBm @ 9 Mb/s -92 dBm @ 12 Mb/s -90 dBm @ 18 Mb/s -86 dBm @ 24 Mb/s -84 dBm @ 36 Mb/s -79 dBm @ 48 Mb/s -78 dBm @ 54 Mb/s	**802.11a (non HT20)** -93 dBm @ 6 Mb/s -93 dBm @ 9 Mb/s -92 dBm @ 12 Mb/s -90 dBm @ 18 Mb/s -87 dBm @ 24 Mb/s -84 dBm @ 36 Mb/s -79 dBm @ 48 Mb/s -79 dBm @ 54 Mb/s	
	2.4-GHz **802.11n (HT20)** -92 dBm @ MCS0 -90 dBm @ MCS1 -88 dBm @ MCS2 -85 dBm @ MCS3 -82 dBm @ MCS4 -77 dBm @ MCS5 -76 dBm @ MCS6 -74 dBm @ MCS7 -92 dBm @ MCS8 -90 dBm @ MCS9 -87 dBm @ MCS10 -85 dBm @ MCS11 -82 dBm @ MCS12 -77 dBm @ MCS13 -75 dBm @ MCS14 -74 dBm @ MCS15		**5-GHz** **802.11n (HT20)** -93 dBm @ MCS0 -91 dBm @ MCS1 -89 dBm @ MCS2 -86 dBm @ MCS3 -83 dBm @ MCS4 -78 dBm @ MCS5 -77 dBm @ MCS6 -75 dBm @ MCS7 -87 dBm @ MCS8 -87 dBm @ MCS9 -85 dBm @ MCS10 -83 dBm @ MCS11 -79 dBm @ MCS12 -75 dBm @ MCS13 -73 dBm @ MCS14 -72 dBm @ MCS15	**5-GHz** **802.11n (HT40)** -91 dBm @ MCS0 -89 dBm @ MCS1 -87 dBm @ MCS2 -83 dBm @ MCS3 -80 dBm @ MCS4 -75 dBm @ MCS5 -74 dBm @ MCS6 -72 dBm @ MCS7 -86 dBm @ MCS8 -85 dBm @ MCS9 -84 dBm @ MCS10 -80 dBm @ MCS11 -77 dBm @ MCS12 -72 dBm @ MCS13 -71 dBm @ MCS14 -70 dBm @ MCS15
Maximum Transmit Power	**2.4 GHz** • 802.11b ◦ 23 dBm with 2 antennas • 802.11g ◦ 20 dBm with 2 antennas • 802.11n (non-HT duplicate mode) ◦ 20 dBm with 2 antennas • 802.11n (HT20) ◦ 20 dBm with 2 antennas		**5 GHz** • 802.11a ◦ 20 dBm with 2 antennas • 802.11n non-HT duplicate mode ◦ 20 dBm with 2 antennas • 802.11n (HT20) ◦ 20 dBm with 2 antennas • 802.11n (HT40) ◦ 20 dBm with 2 antennas	
Note: The maximum power setting will vary by channel and according to individual country regulations. Refer to the product documentation for specific details.				
Available Transmit Power Settings	**2.4 GHz** 23 dBm (200 mW) CCK Only 20 dBm (100 mW) 17 dBm (50 mW) 14 dBm (25 mW) 11 dBm (12.5 mW) 8 dBm (6.25 mW) 5 dBm (3.13 mW) 2 dBm (1.56 mW) -1 dBm (0.78 mW)		**5 GHz** 20 dBm (100 mW) 17 dBm (50 mW) 14 dBm (25 mW) 11 dBm (12.5 mW) 8 dBm (6.25 mW) 5 dBm (3.13 mW) 2 dBm (1.56 mW) -1 dBm (0.78 mW)	
Note: The maximum power setting will vary by channel and according to individual country regulations. Refer to the product documentation for specific details.				

Item	Specification
External Antenna (sold separately)	Cisco offers the industry's broadest selection of 802.11n antennas delivering optimal coverage for a variety of deployment scenarios.
Interfaces	• 10/100/1000BASE-T autosensing (RJ-45) • Management console port (RJ-45)
Indicators	• Status LED indicates boot loader status, association status, operating status, boot loader warnings, and boot loader errors
Dimensions (W x L x H)	• Access point (without mounting bracket): 8.7 x 8.7 x 1.84 in. (22.1 x 22.1 x 4.7 cm)
Weight	• 2.3 lbs (1.04 kg)
Environmental	• Nonoperating (storage) temperature: -40 to 185°F (-4 0 to 85°C) • Operating temperature: -4 to +131°F (-20 to +55°C) • Operating humidity: 10 to 90 percent (noncondensing)
System Memory	• 128 MB DRAM • 32 MB flash
Input Power Requirements	• AP1260: 44 to 57 VDC • Power Supply and Power Injector: 100 to 240 VAC; 50 to 60 Hz
Powering Options	• 802.3af Ethernet Switch • Cisco AP1260 Power Injectors (AIR-PWRINJ4=) • Cisco AP1260 Local Power Supply (AIR-PWR-B=)
Power Draw	• AP1260: 12.95 W **Note:** When deployed using Power over Ethernet (PoE), the power drawn from the power sourcing equipment will be higher by some amount dependent on the length of the interconnecting cable. This additional power may be as high as 2.45W, bringing the total system power draw (access point + cabling) to 15.4W.
Warranty	• Limited Lifetime Hardware Warranty
Compliance Standards	• Safety: ◦ UL 60950-1 ◦ CAN/CSA-C22.2 No. 60950-1 ◦ UL 2043 ◦ IEC 60950-1 ◦ EN 60950-1 • Radio approvals: ◦ FCC Part 15.247, 15.407 ◦ RSS-210 (Canada) ◦ EN 300.328, EN 301.893 (Europe) ◦ ARIB-STD 33 (Japan) ◦ ARIB-STD 66 (Japan) ◦ ARIB-STD T71 (Japan) ◦ AS/NZS 4268.2003 (Australia and New Zealand) ◦ EMI and susceptibility (Class B) ◦ FCC Part 15.107 and 15.109 ◦ ICES-003 (Canada) ◦ VCCI (Japan) ◦ EN 301.489-1 and -17 (Europe) ◦ EN 60601-1-2 EMC requirements for the Medical Directive 93/42/EEC • IEEE Standard: ◦ IEEE 802.11a/b/g, IEEE 802.11n 2.0, IEEE 802.11h, IEEE 802.11d • Security: ◦ 802.11i, Wi-Fi Protected Access 2 (WPA2), WPA ◦ 802.1X ◦ Advanced Encryption Standards (AES), Temporal Key Integrity Protocol (TKIP) • EAP Type(s): ◦ Extensible Authentication Protocol-Transport Layer Security (EAP-TLS) ◦ EAP-Tunneled TLS (TTLS) or Microsoft Challenge Handshake Authentication Protocol Version 2 (MSCHAPv2) ◦ Protected EAP (PEAP) v0 or EAP-MSCHAPv2

Item	Specification
	◦ Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST) ◦ PEAPv1 or EAP-Generic Token Card (GTC) ◦ EAP-Subscriber Identity Module (SIM) • Multimedia: ◦ Wi-Fi Multimedia (WMM™) • Other: ◦ FCC Bulletin OET-65C ◦ RSS-102

Limited Lifetime Hardware Warranty

This Cisco Aironet 1260 Series Access Point comes with a Limited Lifetime Warranty that provides full warranty coverage of the hardware for as long as the original end user continues to own or use the product. The warranty includes 10-day advance hardware replacement and ensures that software media is defect-free for 90 days. For more details, visit: http://www.cisco.com/go/warranty.

Service and Support

Cisco and Cisco Wireless LAN Specialized Partners offer a broad portfolio of end-to-end services based on proven methodologies for planning, designing, implementing, operating, and optimizing the performance of a variety of secure voice and data wireless network solutions, technologies, and strategies. Cisco Wireless LAN Specialized Partners bring application expertise to help deliver a secure enterprise mobility solution with a low total cost of ownership. For more information about Cisco 802.11n planning and deployment services, visit: http://www.cisco.com/go/wirelesslanservices.

For More Information

For more information about the Cisco Aironet 1260 Series, visit http://www.cisco.com/go/wireless or contact your local account representative.

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