

Cisco Aironet 1140 Series Access Point



Taking Business Mobility Mainstream

The Cisco® Aironet® 1140 Series Access Point is a business-ready, 802.11n access point designed for simple deployment and energy efficiency. The highperformance platform, which offers at least six times the throughput of existing 802.11a/g networks, prepares the business for the next wave of mobile devices and applications. Building on the Cisco Aironet heritage of RF excellence, the 1140 Series combines the industry's most widely deployed 802.11n technology with a sleek industrial design that blends seamlessly into any enterprise environment. Designed for sustainability, the 1140 Series delivers high performance from standard 802.3af Power over Ethernet while decreasing waste with multiunit eco-packs and Energy Star certified power supplies. As part of the Cisco Unified Wireless Network, the 1140 Series provides the industry's lowest total cost of ownership and investment protection by integrating seamlessly with the existing network.

RF Excellence

The Cisco Unified Wireless Network with M-Drive technology removes the mystery associated with design, implementation, and ongoing optimization of enterprise wireless networks. With Cisco M-Drive technology, IT has the tools needed to build and operate a high performance wireless network without the need for extensive RF engineering skills.

mproves wireless coverage, and increases system capacity and performance. Features include:
 Radio resource management (RRM): Automated self-healing optimizes the unpredictability of RF to reduce dead spots and help ensure high availability client connections. RRM optimizes network capacity and mitigates interference by continuously monitoring and

Cisco M-Drive technology is a systemwide approach that manages the corporate RF spectrum,



Performance with Investment Protection

- Six times faster than 802.11a/g networks
- Backward-compatible with 802.11a/b/g clients
- M-Drive technology optimizes RF

Easy Installation and Power Efficient

- 802.11n performance with existing PoE switches
- Sleek design blends into a variety of indoor environments

Secure Interoperability

- 802.11n draft 2.0 compliant
- Intel Connect with Centrino Certified

Simplified Network Management

- Controller-based or standalone* deployment options
- CleanAir¹ technology reduces troubleshooting and performance impacts

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

Easy-to-Install, Multipurpose Mounting Bracket

- Designed for easy replacement of existing access points
- UL 2043 plenum rated for above ceiling installation options or suspended from drop ceilings.
- Locks for theft protection

*Standalone version will be available in 2009.

- adjusting access point power and channel settings and then load balancing clients to enhance wireless coverage.
- CleanAir¹ technology: Only Cisco offers a comprehensive solution to detect, classify, locate, and mitigate sources of interference, including non-Wi-Fi sources such as Bluetooth, microwave ovens, cordless phones, and more. With the ability to visualize performance-impacting interference directly from Wireless Control System (WCS), you can proactively manage the challenges of a shared wireless spectrum and optimize network performance.

Environmentally Responsible

The Cisco Aironet 1140 Series offers 802.11n performance with standard 802.3af Power over Ethernet (PoE). At only 12.95 watts of power, the 1140 Series is the only platform to combine the power of dual-radio 802.11n with the efficiency of standard PoE. Additionally, the 1140 Series is designed to operate more efficiently during off-peak hours when fewer clients are connected to the access point.

For quicker staging and installation, you can order the 1140 Series in multiunit eco-packs, which offer 10 access points in a single, easy-to-open carton. Eco-packs reduce product packaging by 50 percent, preserving natural resources and reducing emissions. By eliminating unnecessary components and offering digital instead of paper documentation, the 1140 Series eco-packs will save over 2200 trees per year, which is equal to the amount of power required to heat over 65 homes for an entire year.

Product Specifications

Table 1 lists the product specifications for Cisco Aironet 1140 Series Access Points.

Table 1. Product Specifications for Cisco Aironet 1140 Series Access Points

Item	Specification				
Part Numbers	Cisco Aironet 1140 Series Access Point				
	AIR-LAP1142N-x-K9—Dual-band Unified 802.11a/g/n				
	AIR-LAP1141N-x-K9—Single-band Unified 802.11g/n				
	AIR-AP1142N-x-K9—Dual-band Standalone 802.11a/g/n				
	AIR-AP1141N-x-K9—Single-band Standalone 802.11g/n				
	AIR-LAP1142-xK9-10—Eco-pack (dual-band 802.11a/g/n) 10 quantity access points				
	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 5.2 or later.				
Draft 802.11n Version	2x3 multiple-input multiple-output (MIMO) with two spatial streams				
2.0 (and Related) Capabilities	Maximal ratio combining (MRC)				
	Legacy beamforming (hardware supports this capability; not yet enabled in software)				
	• 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) (Bin 5)				
	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				

¹ Requires Cisco Wireless Control System and Cisco Spectrum Expert Wi-Fi

n data rate	s (2.4 GHz and 5 GHz): GI ³ = 800ns 20-MHz Rate (Mbps) 6.5 13 19.5	40-N (Mbp 13.5 27	IHz Rate	GI = 400ns 20-MHz Rate	40-MHz Rate
dex ²	20-MHz Rate (Mbps) 6.5 13 19.5	(Mb ₁		20-MHz Rate	40-MHz Pata
	(Mbps) 6.5 13 19.5	(Mb ₁			40-MHz Bata
	13 19.5			(Mbps)	(Mbps)
	19.5	27		7.2	15
		_		14.4	30
	26	40.5		21.7	45
	20	54		28.9	60
	39	81		43.3	90
	52	108		57.8	120
	58.5	121.	 5	65	135
	65	135		72.2	150
	13	27		14.4	30
	26	54		28.9	60
	39	81		43.3	90
	52	108		57.8	120
	78	162		86.7	180
	104	216		115.6	240
	117	243		130	270
	130	270	N (N	144.4	300
A (Americas (FCC)): • 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 (China): • 2.412 to 2.472 GHz; 13 channels • 5.745 to 5.825 GHz; 5 channels E (ETSI): • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz, 11 channels I (Israel): • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels K (Korea): • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels			N (Non-FCC): • 2.412 to 2.462 GHz; 11 channels • 5.180 to 5.320 GHz; 8 channels • 5.745 to 5.825 GHz; 5 channels P (Japan2): • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels S (Singapore): • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.180 to 5.320 GHz; 8 channels • 5.745 to 5.825 GHz; 5 channels T (Taiwan): • 2.412 to 2.462 GHz; 11 channels • 5.280 to 5.320 GHz; 3 channels • 5.500 to 5.700 GHz, 11 channels • 5.500 to 5.700 GHz, 11 channels • 5.745 to 5.825 GHz; 5 channels		
main. Refe	r to the product docume	ntation	for specific de	etails for each regula	atory domain.
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		
1	45 to 5.805 main. Refe z .11b/g: 0 MHz: 3 .11n:	to 5.805 GHz, 4 channels main. Refer to the product docume t .11b/g: 0 MHz: 3 .11n: 0 MHz: 3	45 to 5.805 GHz, 4 channels main. Refer to the product documentation z .11b/g: 0 MHz: 3 .11n: 0 MHz: 3 0 MHz: 1	#5 to 5.805 GHz, 4 channels main. Refer to the product documentation for specific december of the product documentation for specific documentation for specific december of the product documentation for specific documentation for specific documentation for spec	to 5.805 GHz, 4 channels main. Refer to the product documentation for specific details for each regular to the product documentation for specific details for each regular to the product documentation for specific details for each regular to the product documentation for specific details for each regular to the specifi

² MCS Index: The **M**odulation and **C**oding **S**cheme (MCS) index determines the number of spatial streams, the

modulation, the coding rate, and data rate values.

³ GI: A **G**uard **I**nterval **(GI)** between symbols helps receivers overcome the effects of multipath delays.

Item	Specification				
Receive Sensitivity	802.11b	802.11g	802.11a		
•	-91 dBm @ 1 Mb/s	-86 dBm @ 6 Mb/s	-90 dBm @ 6 Mb/s		
	-91 dBm @ 2 Mb/s	-86 dBm @ 9 Mb/s	-90 dBm @ 9 Mb/s		
	-91 dBm @ 5.5 Mb/s	-86 dBm @ 12 Mb/s	-90 dBm @ 12 Mb/s		
	-88 dBm @ 11 Mb/s	-86 dBm @ 18 Mb/s	-90 dBm @ 18 Mb/s		
		-85 dBm @ 24 Mb/s	-88 dBm @ 24 Mb/s		
		-83 dBm @ 36 Mb/s	-85 dBm @ 36 Mb/s		
		-78 dBm @ 48 Mb/s	-80 dBm @ 48 Mb/s		
		-77 dBm @ 54 Mb/s	-79 dBm @ 54 Mb/s		
	2.4-GHz	2.4-GHz	5-GHz	5-GHz	
	802.11n (HT20)	802.11n (HT40)	802.11n (HT20)	802.11n (HT40)	
	-88 dBm @ MCS0	-85 dBm @ MCS0	-91 dBm @ MCS0	-78 dBm @ MCS0	
	-87 dBm @ MCS1	-85 dBm @ MCS1	-91 dBm @ MCS1	-78 dBm @ MCS1	
	-86 dBm @ MCS2	-83 dBm @ MCS2	-90 dBm @ MCS2	-78 dBm @ MCS2	
	-83 dBm @ MCS3	-80 dBm @ MCS3	-87 dBm @ MCS3	-78 dBm @ MCS3	
	-80 dBm @ MCS4	-77 dBm @ MCS4	-84 dBm @ MCS4	-78 dBm @ MCS4	
	-76 dBm @ MCS5	-72 dBm @ MCS5	-79 dBm @ MCS5	-75 dBm @ MCS5	
	-74 dBm @ MCS6	-71 dBm @ MCS6	-77 dBm @ MCS6	-73 dBm @ MCS6	
	-73 dBm @ MCS7	-70 dBm @ MCS7	-76 dBm @ MCS7	-72 dBm @ MCS7	
	-87 dBm @ MCS8	-85 dBm @ MCS8	-90 dBm @ MCS8	-76 dBm @ MCS8	
	-85 dBm @ MCS9	-82 dBm @ MCS9	-89 dBm @ MCS9	-76 dBm @ MCS9	
	-83 dBm @ MCS10	-80 dBm @ MCS10	-86 dBm @ MCS10	-76 dBm @ MCS10	
	-80 dBm @ MCS11	-76 dBm @ MCS11	-83 dBm @ MCS11	-76 dBm @ MCS11	
	-77 dBm @ MCS12	-73 dBm @ MCS12	-80 dBm @ MCS12	-76 dBm @ MCS12	
	-73 dBm @ MCS13	-69 dBm @ MCS13	-75 dBm @ MCS13	-71 dBm @ MCS13	
	-71 dBm @ MCS14	-67 dBm @ MCS14	-74 dBm @ MCS14	-69 dBm @ MCS14	
	-70 dBm @ MCS15	-66 dBm @ MCS15	-72 dBm @ MCS15	-68 dBm @ MCS15	
Maximum Transmit	2.4GHz		5GHz		
Power	• 802.11b		• 802.11a		
	 20 dBm with 1 antenna 		• 17 dBm with 1 antenna		
	• 802.11g		802.11n non-HT duplicate (802.11a duplicate) mode 17 dRm with 1 aptopps		
	• 17 dBm with 1 antenna		• 17 dBm with 1 antenna		
	• 802.11n (HT20)		802.11n (HT20) 20 dBm with 2 antennas		
	20 dBm with 2 antennas 203 ddm (UT40)				
	802.11n (HT40)20 dBm with 2 a	ntonnos	802.11n (HT40) 20 dBm with 2 antennas		
Note: The maximum new			dividual country regulations. Refer to the product		
Note. The maximum boy	ver setting will vary by G		dividual country regulations. F	Pafar to the product	
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Item	Specification			
Weight	• 2.3 lbs (1.04 kg)			
Environmental	 Nonoperating (storage) temperature: -22 to 185♥ (-30 to 85♥) Operating temperature: 32 to 104♥ (0 to 40♥) 			
	Operating temperature: 32 to 104 P (0 to 40 C) Operating humidity: 10 to 90% percent (non-condensing)			
System Memory	• 128 MB DRAM			
	• 32 MB flash			
Input Power Requirements	• AP1140: 44 to 57 VDC			
Requirements	Power Supply and Power Injector: 100 to 240 VAC; 50 to 60 Hz			
Powering Options	802.3af Ethernet Switch			
	Cisco AP1140 Power Injectors (AIR-PWRINJ4=)			
	Cisco AP1140 Local Power Supply (AIR-PWR-A=)			
Power Draw	• AP1140: 12.95 W			
	Note: When deployed using 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				
Warranty	90 days			
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) TML			
	 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 draft 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			
	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			

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 1140 Series, visit http://www.cisco.com/go/wireless or contact your local account representative.



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