


# Cisco Aironet 600 Series OfficeExtend Access Points


<p><b>Performance with Investment Protection</b></p> <ul style="list-style-type: none"> <li>• Dual-radio, 802.11n access point</li> <li>• Backward-compatible with 802.11a/b/g clients</li> </ul>
<p><b>Remote Connectivity to Corporate Resources</b></p> <ul style="list-style-type: none"> <li>• Supports up to three corporate service set identifiers (SSIDs) and 15 wireless clients</li> <li>• Four Ethernet ports: Up to two for corporate access and the rest for personal use</li> <li>• Supports voice-over-Wi-Fi with dual-mode phones, soft phones, or Cisco Unified Wireless IP Phones</li> <li>• Split tunnel for printing - use your personal printer while connected to the corporate WLAN</li> <li>• Split tunnel for Internet Traffic - provides control over how Internet bound traffic is handled</li> </ul>
<p><b>Easy Installation</b></p> <ul style="list-style-type: none"> <li>• Sleek design ideal for desktop placement</li> </ul>
<p><b>Simplified Network Management</b></p> <ul style="list-style-type: none"> <li>• Minimal setup and maintenance requirements (zero-touch end-user deployment)</li> <li>• Numerous controller-based deployment options</li> <li>• Management similar to corporate WLAN, using the same infrastructure and devices</li> </ul>
<p><b>Secure Connections</b></p> <ul style="list-style-type: none"> <li>• Supports highly secure corporate wireless connectivity to employees' homes</li> <li>• Allows spouses, partners, and children to access the Internet without introducing additional security risks to corporate policy</li> <li>• Personal Firewall - Provides port/application protection for personal network traffic</li> </ul>



## Powerful [802.11n](#) Dual-Radio Performance

The Cisco® Aironet® 600 Series OfficeExtend [Access Points](#) provide highly secure enterprise [wireless](#) coverage to the home. These dual-band, 802.11n access points extend the corporate network to home teleworkers and mobile contractors. The access point connects to the home's broadband Internet access and establishes a highly secure tunnel to the corporate network so that remote employees can access data, voice, video, and cloud services for a [mobility](#) experience consistent with that at the corporate office. The dual-band, simultaneous support for 2.4-GHz and 5-GHz radio frequencies helps assure that corporate devices are not affected by congestion caused by common household devices that use the 2.4-GHz band. The Cisco Aironet 600 Series OfficeExtend Access Points are purposely designed for the teleworker by supporting secure corporate data access and maintaining connectivity for personal home devices with segmented home traffic.

## How It Works

The same services that are available on the [wireless network](#) at the corporate office are securely accessed through the Cisco Aironet 600 Series from a remote location. Data, voice, and video as well as applications such as Cisco Unified MeetingPlace® conferencing,

Cisco WebEx® technology, and dual-mode phones are supported by the Cisco Aironet 600 Series.

For the initial setup at a home office, the remote worker plugs the access point into a home router connected to or integrated with their broadband modem. The Cisco Aironet 600 Series access point is provisioned in advance and will automatically set up a secure tunnel to the corporate headquarters with a Cisco [wireless controller](#).

A preregistered corporate IP phone can also automatically connect with Cisco Unified Communications Manager to access the corporate phone number, voicemail, and user settings.

## How the Remote Workforce Benefits

The Cisco Aironet 600 Series helps improve workforce productivity, business resiliency, and work schedule flexibility while reducing travel costs and carbon emissions. It is targeted toward commercial, enterprise, and service provider networks across all industries. The Cisco Aironet 600 Series is appropriate for employees who need reliable and consistent access to networked business services at home or at work, as well as telecommuters who require the same wireless connectivity as at the corporate site. Voice costs are reduced, since users can use Wi-Fi instead of cellular coverage for voice calls.

Table 1 lists the features and benefits of the Cisco Aironet 600 Series OfficeExtend [Access Points](#).

**Table 1.** Features and Benefits

Feature	Benefits
<b>Performance</b>	<ul style="list-style-type: none"> <li>Dual-radio, dual-band, 802.11n access point for the home that provides highly secure, reliable wired and wireless connectivity to home or remote offices.</li> <li>Supports both the 2.4-GHz and 5-GHz radio frequency band simultaneously, allowing users to avoid congestion from home devices.</li> </ul>
<b>Simplified operations and management</b>	<ul style="list-style-type: none"> <li>Extends real-time services such as voice, wireless, video, and data to remote locations that have no IT staff.</li> <li>Management is similar to that of the corporate <a href="#">wireless LAN</a>, using the same infrastructure and devices (Cisco wireless controllers, Cisco Prime™ Infrastructure, and Cisco Aironet access points).</li> <li>Cisco Unified Wireless IP Phones may be preconfigured or added in the future.</li> </ul>
<b>Robust security</b>	<ul style="list-style-type: none"> <li>The Cisco Aironet 600 Series establishes a secure Datagram Transport Layer Security (DTLS) connection between the access point and the controller to offer remote WLAN connectivity, using the same profile as at the corporate office.</li> <li>Secure tunneling mitigates risks of viruses and attacks on the corporate network found in split-tunneling scenarios.</li> <li>Segmentation of home and corporate traffic maintains home-device connectivity without introducing security risks to corporate policy.</li> </ul>
<b>End-to-end voice services</b>	<ul style="list-style-type: none"> <li>Supports <a href="#">unified communications</a> for improved collaboration through messaging, presence, and conferencing.</li> <li>Supports all <a href="#">Cisco Unified Wireless IP Phones</a> for cost-effective, real-time voice services.</li> </ul>
<b>Environmentally responsible</b>	<ul style="list-style-type: none"> <li>Enables best practices for green initiatives by reducing commuting hours and emissions.</li> </ul>

## Product Specifications

Table 2 lists the product specifications for the Cisco Aironet 600 Series OfficeExtend Access Points.

**Table 2.** Product Specifications

Item	Specification
<b>Part numbers</b>	<p><b>Cisco Aironet 600 OfficeExtend Series Access Points</b></p> <ul style="list-style-type: none"> <li>AIR-OEAP602I-x-K9: Dual-band controller-based 802.11a/g/n</li> <li>AIR-OEAP602I-xK910: Eco-pack (dual-band 802.11a/g/n) 10 quantity controller-based access points</li> </ul> <p><b>Regulatory domains: (x = regulatory domain)</b></p> <p>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, visit <a href="http://www.cisco.com/go/aironet/compliance">http://www.cisco.com/go/aironet/compliance</a>.</p>
<b>Software</b>	<ul style="list-style-type: none"> <li>Cisco Unified Wireless Network Software Release 7.0 MR1 or later</li> </ul>
<b>Controllers supported</b>	<ul style="list-style-type: none"> <li>Cisco Virtual, 2500, 5500, 7500, and 8500 Series Wireless Controllers and Cisco Wireless Services Module 2 (WiSM2)</li> </ul>
<b>802.11n</b>	<ul style="list-style-type: none"> <li>Multiple-input multiple-output (MIMO) with two spatial streams</li> <li>Maximal ratio combining (MRC)</li> <li>20- and 40-MHz channels</li> <li>PHY data rates up to 300 Mbps<sup>1</sup></li> <li>Packet aggregation: A-MPDU (Tx/Rx)</li> <li>Cyclic shift diversity (CSD) support</li> </ul>

<sup>1</sup> For encrypted corporate traffic, the maximum throughput supported is 10 Mbps.

Item	Specification				
Data rates supported	<b>802.11a:</b> 6, 9, 12, 18, 24, 36, 48, and 54 Mbps				
	<b>802.11g:</b> 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps				
	<b>802.11n data rates (2.4 GHz and 5 GHz):</b>				
	MCS Index <sup>2</sup>	GI <sup>3</sup> = 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
	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	<b>A Regulatory Domain:</b>		<b>N Regulatory Domain:</b>		
	<ul style="list-style-type: none"> <li>• 2.412 to 2.462 GHz; 11 channels</li> <li>• 5.180 to 5.240 GHz; 4 channels</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul>		<ul style="list-style-type: none"> <li>• 2.412 to 2.462 GHz; 11 channels</li> <li>• 5.180 to 5.240 GHz; 4 channels</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul>		
	<b>C Regulatory Domain:</b>		<b>P Regulatory Domain:</b>		
	<ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul>		<ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.180 to 5.240 GHz; 4 channels</li> </ul>		
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<b>Note:</b> This varies by regulatory domain. Refer to the product documentation for specific details for each regulatory domain.					
Maximum number of nonoverlapping channels	<b>2.4 GHz</b>		<b>5 GHz</b>		
	<ul style="list-style-type: none"> <li>• 802.11b/g: 20 MHz: 3</li> <li>• 802.11n: 20 MHz: 3</li> </ul>		<ul style="list-style-type: none"> <li>• 802.11a: 20 MHz: 9</li> <li>• 802.11n: 20 MHz: 9, 40 MHz: 4</li> </ul>		
<b>Note:</b> This varies by regulatory domain. Refer to the product documentation for specific details for each regulatory domain.					

<sup>2</sup> MCS Index: The Modulation and Coding Scheme (MCS) index determines the number of spatial streams, the modulation, the coding rate, and data rate values.

<sup>3</sup> GI: A Guard Interval (GI) between symbols helps receivers overcome the effects of multipath delays.

Item	Specification	
<b>Receive sensitivity</b>	<b>2.4 GHz</b> <ul style="list-style-type: none"> <li>802.11b: -87 dBm typical @ 11 Mbps</li> <li>802.11g: -77 dBm typical @ 54 Mbps</li> <li>802.11n 20 MHz: -71 dBm typical @ MCS15</li> <li>802.11n 40 MHz: -68 dBm typical @ MCS15</li> </ul>	<b>5 GHz</b> <ul style="list-style-type: none"> <li>802.11a: -74 dBm typical @ 54 Mbps</li> <li>802.11n 20 MHz: -68 dBm typical @ MCS15</li> <li>802.11n 40 MHz: -65 dBm typical @ MCS15</li> </ul>
<b>Maximum transmit power</b>	<b>2.4 GHz</b> <ul style="list-style-type: none"> <li>802.11b (CCK): 20 dBm with one antenna</li> <li>802.11g: 20 dBm with 2 antennas</li> <li>802.11n (HT20): 20 dBm with 2 antennas</li> <li>802.11n (HT40): 20 dBm with 2 antennas</li> </ul>	<b>5 GHz</b> <ul style="list-style-type: none"> <li>802.11a: 20 dBm with 2 antennas</li> <li>802.11n (HT20): 20 dBm with 2 antennas</li> <li>802.11n (HT40): 20 dBm with 2 antennas</li> </ul>
<p><b>Note:</b> The maximum power setting will vary by channel and according to individual country regulations. Refer to the product documentation for specific details.</p>		
<b>Integrated antenna</b>	<ul style="list-style-type: none"> <li>2.4 GHz, gain 3.5 dBi, horizontal beamwidth 360°</li> <li>5 GHz, gain 4.0 dBi, horizontal beamwidth 360°</li> </ul>	
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>4x 10/100/1000BASE-T autosensing (RJ-45)</li> <li>1x 10/100/1000BASE-T WAN port (RJ-45)</li> <li>USB (not used)</li> </ul>	
<b>Indicators</b>	<ul style="list-style-type: none"> <li>Status LED indicates boot loader status, association status, operating status, boot loader errors, port status</li> </ul>	
<b>Dimensions (W x L x H)</b>	<ul style="list-style-type: none"> <li>Access point (without cradle): 7.75 x 7 x 1.6 in. (195.3 x 176.3 x 39.65 mm)</li> <li>Access point (with cradle): 8.1 x 7.0 x 2.7 in. (206.15 x 176.3 x 67 mm)</li> </ul>	
<b>Weight</b>	<ul style="list-style-type: none"> <li>0.99 lb (0.452 kg) without cradle</li> <li>1.44 lb (0.653 kg) with cradle</li> </ul>	
<b>Environmental</b>	<ul style="list-style-type: none"> <li>Nonoperating (storage) temperature: -13° to +140°F (-25° to 60°C)</li> <li>Operating temperature: 32° to 104°F (0° to 40°C)</li> <li>Operating humidity: 10% to 80% relative humidity (noncondensing)</li> </ul>	
<b>System memory</b>	<ul style="list-style-type: none"> <li>64 MB DRAM</li> <li>16 MB flash</li> </ul>	
<b>Power options</b>	<ul style="list-style-type: none"> <li>Cisco AP600 local power supply: 100 to 240 VAC; 50 to 60 Hz (AIR-PWR-ADTR-cc, where cc is country code as follows: AP=Asia Pacific; AR=Argentina/Uruguay; AU=Australia; BR=Brazil; CE=Central Europe; CH=China; DM=Denmark; IS=Israel; IT=Italy; JP=Japan; NA=North America; SA=South Africa; SW=Switzerland; UK=United Kingdom)</li> </ul>	
<b>Power draw</b>	<ul style="list-style-type: none"> <li>Consumption: 12W normal, 15W maximum</li> </ul>	
<b>Warranty</b>	Limited Lifetime Hardware Warranty	
<b>Compliance and safety standards</b>	<ul style="list-style-type: none"> <li><b>Safety</b> <ul style="list-style-type: none"> <li>UL 60950-1, 2<sup>nd</sup> Edition</li> <li>CAN/CSA-C22.2 No. 60950-1, 2<sup>nd</sup> Edition</li> <li>IEC 60950-1, 2<sup>nd</sup> Edition</li> <li>EN 60950-1, 2<sup>nd</sup> Edition</li> </ul> </li> <li><b>Radio Approvals</b> <ul style="list-style-type: none"> <li>FCC Part 15.247, 15.407</li> <li>RSS-210 (Canada)</li> <li>EN 300 328, EN 301 893 (Europe)</li> <li>ARIB-STD 33 (Japan)</li> <li>ARIB-STD 66 (Japan)</li> <li>ARIB-STD T71 (Japan)</li> <li>AS/NZS 4268.2003 (Australia and New Zealand)</li> <li>EMI and susceptibility (Class B)</li> <li>FCC Part 15.107 and 15.109</li> <li>ICES-003 (Canada)</li> <li>VCCI (Japan)</li> <li>EN 301 489-1 and -17 (Europe)</li> </ul> </li> <li><b>IEEE Standard</b> <ul style="list-style-type: none"> <li>IEEE 802.11a/b/g, IEEE 802.11n, IEEE 802.11h, IEEE 802.11d</li> </ul> </li> </ul>	

Item	Specification
	<ul style="list-style-type: none"> <li>• <b>Security</b> <ul style="list-style-type: none"> <li>◦ 802.11i, Wi-Fi Protected Access 2 (WPA2), WPA</li> <li>◦ 802.1X</li> <li>◦ Advanced Encryption Standard (AES), Temporal Key Integrity Protocol (TKIP)</li> </ul> </li> <li>• <b>EAP Type(s)</b> <ul style="list-style-type: none"> <li>◦ Extensible Authentication Protocol-Transport Layer Security (EAP-TLS)</li> <li>◦ EAP-Tunneled TLS (TTLS) or Microsoft Challenge Handshake Authentication Protocol Version 2 (MSCHAPv2)</li> <li>◦ Protected EAP (PEAP) v0 or EAP-MSCHAPv2</li> <li>◦ Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST)</li> <li>◦ PEAPv1 or EAP-Generic Token Card (GTC)</li> <li>◦ EAP-Subscriber Identity Module (SIM)</li> </ul> </li> <li>• <b>Multimedia</b> <ul style="list-style-type: none"> <li>◦ Wi-Fi Multimedia (WMM)</li> </ul> </li> <li>• <b>Other</b> <ul style="list-style-type: none"> <li>◦ FCC Bulletin OET-65C</li> <li>◦ RSS-102</li> </ul> </li> </ul>

## Service and Support

Realize the full business value of your Cisco Unified Wireless Network more quickly with intelligent, personalized services from Cisco and our partners. Cisco Services offer proven wireless architectures aligned to your business goals and tightly integrated with media-rich, real-time mobility applications. With our breadth and depth of expertise, we support your success every step of the way as you deploy, manage, and scale integrated wireless solutions for optimized performance, security, and management. Sharing knowledge and leading practices, we can help you create a secure, mobile, and interactive business environment to provide a foundation for innovation, agility, and differentiation.

## For More Information

For more information about the Cisco Aironet 600 Series OfficeExtend Access Points, visit <http://www.cisco.com/go/wireless> or contact your local account representative.



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