



# Cisco Wireless LAN Solutions

## World-Class Wi-Fi Made Simple

Wi-Fi has become the primary access network for most organizations. With Cisco® world-class RF equipment and intelligent software, it's a snap to make your wireless network as fast, reliable, and secure as your wired network. You get loads of extra features for improving spectrum efficiency, performance, and user experiences that you can't find anywhere else.

Cisco wireless access points support the latest Wi-Fi standard – 802.11ac Wave 2 – and offer scalable, fast-throughput controller and switching platforms to go with them. Cisco goes beyond the Wi-Fi standard with innovations that are uniquely positioned to handle the dense volumes of wireless traffic generated by today's mobile applications, bring-your-own-device (BYOD) programs, and growing numbers of wireless users, devices, and applications, plus the Internet of Things (IoT) connections.

From access points to controllers to mobility development, location, and analytics, Cisco provides an industry-leading wireless solution (Tables 1 and 2). You get the tools required to achieve RF excellence and security, including:

- High-throughput performance from the access network through the core.
- Subsecond failover for uninterrupted application availability and greater productivity.
- The ability to see and prioritize wireless application traffic so each app gets the resources it needs.
- Ruggedization for harsh environments, outdoor deployments, and the IoT.
- Unified wired and wireless management.
- Mobile app development platforms, location tracking, analytics, and more.

**Table 1.** Cisco Wireless Portfolio Overview

<p><b>Cisco Aironet® 802.11ac Wave 2 access points</b></p>	<ul style="list-style-type: none"> <li>• <a href="#">Aironet 3800</a> Series access points for best-in-class deployments</li> <li>• <a href="#">Aironet 2800</a> Series access points for mission-critical deployments</li> <li>• <a href="#">Aironet 1850</a> and <a href="#">1830 Series</a> access points for medium-sized deployments</li> <li>• <a href="#">Aironet 1815</a> Series access points for small-sized deployments</li> <li>• <a href="#">Aironet 1560</a> Series access points for outdoor deployments</li> <li>• <a href="#">Aironet 1540</a> Series access points for rugged outdoor deployments</li> <li>• <a href="#">Cisco Meraki®</a> cloud-managed access points for fast deployment and simplified administration</li> </ul>
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## The Cisco Wireless Difference

- **Cisco High-Density Experience (HDX)** alleviates strain on high-volume wireless networks, including 802.11ac networks.
- **Flexible Radio Assignment** provides a better user experience with the ability to automatically adapt to unforeseen changes in a high-density network.
- **Cisco Hyperlocation Solution** pinpoints Wi-Fi device locations for customer engagement and advanced security applications.
- **Cisco CleanAir® interference mitigation** lets you run a more efficient wireless environment.
- **Cisco ClientLink beamforming** improves performance for all 802.11a/g/n/ac (both Wave 1 and Wave 2) client devices.

Whether you require entry-level wireless connectivity for a small enterprise, mission-critical coverage at thousands of locations, or best-in-class performance with investment protection for large, crowded environments, you can rely on Cisco wireless solutions.

Cisco has been a significant contributor to, author of, and editor for the wide range of IEEE 802.11 wireless LAN standards. Cisco also collaborates with the Wi-Fi Alliance to define the industry's product interoperability and certification process for all wireless LAN standards, including 802.11ac Wave 1 and 2. Cisco products are frequently among the core testbed products against which the Alliance tests and certifies other vendors' equipment so that compatible products can enter the market.

### Learn More

To learn about Cisco's broad portfolio of enterprise-class wireless hardware and software solutions and how we can help you with your mobility initiatives, contact your Cisco sales representative or visit: <http://www.cisco.com/c/en/us/products/wireless/index.html>.

<p><b>WLAN controllers*</b></p>	<ul style="list-style-type: none"> <li>• <a href="#">Cisco 8540 Wireless Controller</a>, optimized for 802.11ac networks and ideal for large deployments</li> <li>• <a href="#">Cisco 5520 Wireless Controller</a>, optimized for 802.11ac networks and ideal for medium-sized deployments</li> <li>• <a href="#">Cisco 3504 Wireless Controller</a>, optimized for 802.11ac networks and ideal for small and medium-sized deployments</li> <li>• <a href="#">Cisco 2500 Series Wireless Controller</a> for small and medium-sized deployments</li> <li>• Cisco <a href="#">Mobility Express</a>, a virtual controller embedded in Aironet access points, ideal for small to medium-sized businesses</li> <li>• Controller modules, available in <a href="#">Cisco Catalyst® 3650</a> and <a href="#">3850 Series Switches</a> and in Cisco <a href="#">Catalyst 6500 Series Switches</a></li> </ul>
<p><b>Wireless platforms, security, and management tools</b></p>	<ul style="list-style-type: none"> <li>• <a href="#">Cisco Mobility Services Engine (MSE)</a> allows you to deploy location-based mobile services, strengthen security, and increase visibility into the network</li> <li>• <a href="#">Cisco Enterprise Mobility Services Platform (EMSP)</a> helps you create and deploy context-aware experiences that engage people on their mobile devices</li> <li>• <a href="#">Cisco Prime™ Infrastructure</a> enables IT departments to more effectively manage their networks and services</li> <li>• <a href="#">Cisco Identity Services Engine</a> simplifies the delivery of consistent, highly secure access control across wired and wireless networks and remote VPN connections</li> <li>• Cisco Adaptive <a href="#">Wireless Intrusion Prevention System (wIPS)</a> embeds complete wireless threat detection and mitigation into the wireless network infrastructure</li> <li>• <a href="#">Cisco Hyperlocation Module with Advanced Security</a> provides 1- to 3-meter location accuracy of associated Wi-Fi clients</li> </ul>

\* Cisco WLAN controllers can operate in multiple modes. They function as both a Bonjour and Chromecast gateway and support the 802.11r/k/u/v/w/ac standards.

**Table 2.** Cisco Wireless Solutions for Business and Organizations

<p><b>Cisco wireless solutions</b></p>	<ul style="list-style-type: none"> <li>• Cisco <a href="#">802.11ac</a> increases speed, capacity, and reliability to support business-critical applications.</li> <li>• Cisco <a href="#">Mobility Express</a> delivers enterprise-class wireless to small and medium-sized businesses.</li> <li>• Cisco <a href="#">Connected Mobile Experiences</a> helps you understand and engage with customers to make better business decisions.</li> <li>• <a href="#">Cisco Unified Access™</a> offers a converged wired and wireless network that is simple, smart, and highly secure.</li> <li>• <a href="#">BYOD</a> gives employees the freedom to work the way they want while reducing IT complexity.</li> </ul>
<p><b>Cisco wireless for businesses and organizations</b></p>	<ul style="list-style-type: none"> <li>• <a href="#">Retail</a>: Grow your revenues with highly relevant content, and interact with customers in entirely new ways.</li> <li>• <a href="#">Hospitality</a>: Provide a next-generation travel experience for today's digitally savvy guests.</li> <li>• <a href="#">Education</a>: Give students the freedom to learn anywhere, anytime, and with any device.</li> <li>• <a href="#">Healthcare</a>: Connect caregivers and staff to the medical information they need, when they need it.</li> </ul>