



# Cisco Aironet 3800 Series Access Points

The Cisco® Aironet® 3800 Series Wi-Fi access points are highly versatile and deliver the most functionality of any access points in the industry.

## Product Overview

For organizations paving the way for the new 802.11ac Wave 2 standard, the Cisco Aironet 3800 Series is the perfect solution. The access points go beyond getting ready for the new standard, providing the ultimate in flexibility and versatility.


For large enterprise organizations that rely on Wi-Fi to engage with customers, the 3800 Series is a hands-off -device activities and usage. This automation allows you to devote time to other pressing matters, secure in the knowledge that your Wi-Fi network is performing to its utmost potential.

The Aironet 3800 Series is packed with the features and capabilities that have made Cisco the industry leader, at a price point that is ideal for managing wireless growth, capacity, and coverage gaps in dense indoor environments.

## Features and Benefits

Feature	Benefit
<b>802.11ac Wave 2 support</b>	Provides a theoretical connection rate of up to 2.6 Gbps per radio end 802.11ac access points.
<b>High-density experience</b>	Best-in-class RF architecture that provides high-performance coverage for a high density of client devices, giving the end user a seamless wireless experience. Features include custom hardware in 802.11ac Wave 2 radios, Cisco CleanAir®, Cisco ClientLink 4.0, cross-access point noise reduction, and an optimized client roaming experience.
<b>Multisuser multiple-input multiple-output (MU-MIMO) technology</b>	Supporting three spatial streams, MU-MIMO enables access points to split spatial streams between client devices, to maximize throughput.
<b>Multigigabit Ethernet support</b>	Providing multiple gigabit uplink speeds of 2.5 Gbps and 5 Gbps in addition to 100-Mbps and 1-Gbps speeds. All speeds are supported on Category 5e cabling for an industry first, as well as 10GBASE-T cabling.
<b>160-MHz channel support</b>	Supporting channels up to 160 MHz wide, Dynamic Bandwidth Selection allows the access point to dynamically switch between 20-, 40-, 80-, and 160-MHz channels, depending on the RF channel conditions, providing the -performing wireless network.

Feature	Benefit
<b>Zero-impact Application Visibility and Control</b>	Uses dedicated hardware acceleration to improve the performance of line-speed applications such as Cisco Application Visibility and Control.
<b>Flexible Radio Assignment</b>	<p>Allows the access points to intelligently determine the operating mode of serving radios based on the RF environment. The access points can operate in the following modes:</p> <p><b>2.4-GHz and 5-GHz mode:</b> One radio serves clients in 2.4-GHz mode, while the other serves clients in 5-GHz mode.</p> <p><b>Dual 5-GHz mode:</b> Both radios inside the access point operate on the 5-GHz band, maximizing the benefits of 802.11ac Wave 2 and increasing client device capacity.</p> <p><b>Wireless Security Monitoring and 5-GHz mode:</b> One radio serves 5-GHz clients while the other is scanning the full spectrum for attackers, RF interference, and rogue devices.</p> <p><b>Wireless Service Assurance mode:</b> One radio serves 5-GHz clients, while the other proactively monitors the wireless network to help ensure the highest overall performance.</p>
<b>Dual 5-GHz radio support</b>	Enables both radios to operate in 5-GHz client serving mode, allowing an industry-leading 5.2 Gbps (2 x 2.6 Gbps) over-the-air speed while increasing client capacity.
<b>Smart antenna connector</b>	An intelligent second physical antenna connector is included on 3800 Series models with an external antenna. This connector provides advanced network design flexibility for high-density and large open-area environments such as auditoriums, convention centers, libraries, cafeteria, and arenas/stadiums, allowing two sets of antennas to be connected and active on a single access point.
<b>Automatic link aggregation (LAG) support</b>	802.3ad (Link Aggregation Control Protocol [LACP]) compliant, allowing both Gigabit Ethernet interfaces to automatically enable LAG, increasing overall throughput to the access point.
<b>Cisco ClientLink 4.0</b>	Cisco ClientLink 4.0 technology improves downlink performance to all mobile devices, including one-, two-, and three-spatial-stream devices on 802.11a/b/g/n/ac while improving battery life on mobile devices such as smartphones and tablets.



With two radios built into each access point, the Aironet 3800 Series is more versatile than any access point currently on the market. These radios are outfitted with Flexible Radio Assignment, which means that the access points automatically self-optimize to better serve the environment. For example, one of the radios broadcasts its signal on the 5-GHz channel, and the other sends out a 2.4-GHz signal. When there is an increase in activity, the access point understands this potential rise in usage and will automatically switch the 2.4-GHz signal to a 5-GHz signal, increasing the reliability of Wi-Fi use. This setting automatically works in reverse too, so when there is a lull in Internet activity, the access point recognizes that the number of people using wireless devices has dropped and changes back to its original configuration.

The 3800 Series also dynamically changes the radio settings based on the wireless environment. The access point will allow one of the radios to operate in Wireless- Security Monitoring mode, allowing you to detect wireless security threats and interference and combat rogue access. This valuable information can be culled in an easy-to-understand matrix to inform you about your wireless users. Flexible Radio Assignment also allows you to convert a radio into Wireless Service Assurance mode, providing proactive health monitoring of the network.

**Cross-access point noise reduction** is a Cisco innovation that enables access points to intelligently collaborate in real time about RF conditions so that users connect with optimized signal quality and performance.

**Optimized access point roaming** helps ensure that client devices associate with the access point in their

Item	Specification
	<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> <p>Not all regulatory domains have been approved. As they are approved, the part numbers will be available on the Global Price List.</p> <p><b>Cisco Smart Net Total Care Service:</b> <a href="http://www.cisco.com/go/sntc">http://www.cisco.com/go/sntc</a></p> <p><b>Cisco Wireless LAN Services</b></p> <p>AS-WLAN-CNSLT: <a href="#">Cisco Wireless LAN Network Planning and Design Service</a></p> <p>AS-WLAN-CNSLT: <a href="#">Cisco Wireless LAN 802.11n Migration Service</a></p> <p>AS-WLAN-CNSLT: <a href="#">Cisco Wireless LAN Performance and Security Assessment Service</a></p>
<b>Software</b>	Cisco Unified Wireless Network Software Release 8.2.MR1 or later
<b>Supported wireless LAN controllers</b>	Cisco 2500 Series Wireless Controllers, Cisco Wireless Controller Module for ISR G2, Cisco Wireless Services Module 2 (WiSM2) for Catalyst® 6500 Series Switches, Cisco 5500 Series Wireless Controllers, Cisco Flex® 7500 Series Wireless Controllers, Cisco 8500 Series Wireless Controllers, Cisco Virtual Wireless Controller Cisco Catalyst 3850 Series Switches, Cisco Catalyst 3650 Series Switches
<b>802.11n version 2.0 (and related) capabilities</b>	4x4 MIMO with three spatial streams Maximal ratio combining (MRC) 802.11n and 802.11a/g beamforming 20- and 40-MHz channels PHY data rates up to 450 Mbps (40 MHz with 5 GHz). Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) 802.11 dynamic frequency selection (DFS) Cyclic shift diversity (CSD) support
<b>802.11ac Wave 1 capabilities</b>	4x4 MIMO with three spatial streams MRC 802.11ac beamforming 20-, 40-, and 80-MHz channels PHY data rates up to 1.3 Gbps (80 MHz in 5 GHz) Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) 802.11 DFS CSD support
<b>802.11ac Wave 2 capabilities</b>	4x4 MU-MIMO with three spatial streams MRC 802.11ac beamforming 20-, 40-, 80, 160-MHz channels PHY data rates up to 5.2 Gbps Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) 802.11 DFS CSD support
<b>Interfaces</b>	2 Ethernet ports <ul style="list-style-type: none"> <li>100/1000/2500/5000 Multigigabit Ethernet (RJ-45)</li> <li>100/1000BASE-T autosensing (RJ-45)</li> </ul> Management console port (RJ-45)
<b>Indicators</b>	Status LED indicates boot loader status, association status, operating status, boot loader warnings, boot loader errors
<b>Dimensions (W x L x H)</b>	Access point (without mounting brackets): 3802I: 8.66 x 8.68 x 2.46 in. (22 x 22 x 6.25 cm), 3802E: 8.66 x 8.68 x 2.62 in. (22 x 22 x 6.7 cm), 3802P: 8.66 x 8.68 x 2.62 in. (22 x 22 x 6.7 cm)
<b>Warranty</b>	Limited lifetime hardware warranty

## Warranty Information

The Cisco Aironet 3800 Series Access Points come 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 are defect-free for 90 days. For more details, visit <http://www.cisco.com/go/warranty>.



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