

Second-Generation 802.11n-based Access Points for Small and Midsized Networks



Designed with rapidly evolving mobility needs in mind, Cisco offers several 802.11n-based access points for small and midsized networks. The Cisco Aironet® 1600 Series is an entry-level access point with advanced features. With the Aironet 1600 Series, customers can modernize their network to handle today's explosion of more clients, applications, and bandwidth demands. The Cisco® Aironet 700 Series offers a compact dual-radio 802.11n access point ideal for value-minded customers.

Cisco Aironet 1600 Series: Enterprise Class

Figure 1 shows the enterprise-class 1600 Series.

Figure 1. Cisco Aironet 1600 Series Access Points



The Cisco Aironet 1600 Series is an entry-level, enterprise-class 802.11n-based access point designed to address the wireless connectivity needs of small and midsize enterprise networks.

- With at least six times the throughput of existing 802.11a/g networks, the 1600 Series offers the performance advantage of 802.11n enterprise-class performance with 3 x 3 MIMO technology with two spatial streams
- This model provides efficient wireless coverage through [Cisco CleanAir® Express*](#) Technology for interference protection
- [Cisco ClientLink 2.0](#) for better downlink performance and range and longer battery life on mobile devices
- The 1600 Series includes standard 802.3af Power over Ethernet (PoE)
- The 1600i model has integrated antennas for typical office deployments
- The 1600e model is for RF-challenging indoor environments and requires external dual-band antennas. (For more information about antennas, visit: [Antenna Product Portfolio for Cisco Aironet 802.11n Access Points](#))

Cisco Aironet 700 Series

Figure 2 shows the 700 Series.

Figure 2. Cisco Aironet 700 Series Access Point



The Cisco Aironet 700 Series is a dual-radio 802.11n compact access point ideal for value-minded customers.

- Simultaneous dual-band dual-radio 2.4-GHz and 5-GHz with 2 x 2 multiple-input multiple output (MIMO) technology with two spatial streams
- Up to six times more capacity to support applications and clients than legacy 802.11a/b/g networks
- Standard 802.3af PoE
- The 702i model has integrated antennas for typical office and indoor deployments

* Available by end of CY2013



The Cisco Advantage

Cisco has true enterprise-class RF technology designed to maximize 802.11n performance. Cisco technologies such as [Cisco CleanAir Express*](#), [Cisco ClientLink 2.0](#), and [Cisco VideoStream](#), plus optimized access point radios and antennas, improve performance regardless of where client devices are located. All Cisco Aironet 802.11n access points support:

- A limited lifetime hardware warranty
- 5- or 10-unit Eco-Pack bundles with a single, easy-to-open carton that streamlines the staging and installation process and reduces packaging waste by 50 percent

The benefits of deploying Cisco Aironet access points with a Cisco Unified Wireless Network extend from investment protection and future-proofing to better scalability and reliability of the enterprise network. For more details, visit: www.cisco.com/go/wireless.

Table 1 compares the features of the 700 and 1600 Series.

Table 1. Cisco Aironet 802.11n Access Point Comparison

Cisco Aironet 802.11n G2 Indoor Access Points	<u>700 Series</u>	<u>1600 Series</u>
Product Image		
Ideal for	Value-focused customers	Small or midsize enterprises, midmarket
Site type	Indoor office	Indoor office, small warehouse
Number of radios	2.4 and 5 GHz	2.4 and 5 GHz

Cisco Aironet 802.11n G2 Indoor Access Points	<u>700 Series</u>	<u>1600 Series</u>
Max data rate per radio	300 Mbps	300 Mbps
MIMO radio design: spatial streams	2 x 2:2	3 x 3:2
Client count	100 per Radio	128 per Radio
Autonomous access point option	*	Yes
Beamforming	ECBF (hardware capable)	ClientLink 2.0
Spectrum Intelligence		Clean Air Express*
Cisco VideoStream	Yes	Yes
Cisco BandSelect	Yes	Yes
Rogue access point detection	Yes	Yes
Adaptive wireless intrusion protection system (wIPS)	Yes	Yes
Cisco OfficeExtend (Integrated-antenna models only)	(Future)	Yes
Cisco FlexConnect™	Yes	Yes
Converged Access	(Future)	Yes
Power	802.3af, AC Adapter	802.3af, AC Adapter
Temperature range	0 to 40° C	1600i: 0 to 40° C 1600e: -20 to 50° C
Antennas	Internal	1600i: Internal 1600e: External
Wi-Fi standards	802.11a/b/g/n	802.11a/b/g/n
Limited Lifetime Warranty	Yes	Yes

* Planned for future support

* Available by end of CY2013