



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
- [Cisco CleanAir Express](#)* for proactive spectrum intelligence to address RF interference problems
- [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 Access Points](#)

* Future software upgrade

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

Ease of Deployment with Cisco Network Assistant

For quick and easy setup of your Cisco Aironet 700 and 1600 Series access points, [Cisco Network Assistant](#) provides a centralized network view with a user-friendly GUI that simplifies configuration, management and troubleshooting. Using Cisco Network Assistant you can easily discover and initialize your network of stand-alone access points.

Cisco Network Assistant is available free, and can be downloaded here: <http://www.cisco.com/go/cna>.



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	700 Series	1600 Series
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	700 Series	1600 Series
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	Yes
Beamforming		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)		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