ORDERING GUIDE

CISCO AIRONET 1230AG SERIES ACCESS POINT

The Cisco® Aironet® 1230AG Series Access Point provides the physical interface connections shown in Table 1.

Table 1. Cisco Aironet 1230AG Series Connections

Description	Qty	Connection Type
802.11a radio module	1	CardBus
802.11g radio module	1	Mini-PCI
5 GHz antennas	2	RP-TNC
2.4 GHz antennas	2	RP-TNC
10/100 Ethernet	1	RJ-45
Console	1	RJ-45
Local power	1	Barrel connector

The Cisco Aironet 1230AG Series Access Point is a dual-radio 802.11a and 802.11g access point that provides the versatility, high capacity, and enterprise-class features demanded by wireless LAN customers. The mini-PCI interface supports the 802.11g radio that operates in the 2.4 GHz frequency band, while the CardBus interface supports an IEEE 802.11a radio module operating in the 5 GHz frequency band. This access point may only be ordered as a preconfigured bundle, which includes the access point platform in addition to both 802.11a and 802.11g radio modules. Selection of a country power cord is required, and options for an inline power injector and console cable are available through the Cisco Configuration Tool.

The Cisco Aironet 1230AG Series may be ordered with Cisco IOS Software to operate as an autonomous AP or with Lightweight Access Point Protocol (LWAPP). When the 1230AG is operating as a lightweight AP a WLAN controller is required. When ordering the access point, the software image version must be selected in the configuration option. At the completion of configuration, the product will arrive fully assembled.

2.4 GHz antennas are not included with the 802.11g radio modules; they must be identified under a separate order line item and purchased separately. Similarly, the 802.11a radio module has dual RP-TNC antenna connectors, which require auxiliary 5 GHz antennas that are not included and must be ordered separately.

PRECONFIGURED BUNDLE

Table 2 identifies the radio module and components of the preconfigured bundle. Only those regulatory domains identified are available in a preconfigured bundle.

Table 2. Cisco Aironet 1230AG Series Preconfigured Bundle

Preconfigured Bundle	Platform	Radio Modules	Regulatory Domains*
AIR-AP1232AG-x-K9 Cisco IOS Software	AIR-AP1210	AIR-MP21G and AIR-RM22A	x = • A = FCC • C = China • E = ETSI • I = Israel • J = TELEC (Japan) • K = Korea • N = North America (Excluding FCC) • P = Japan2 • S = Singapore • T = Taiwan
AIR-LAP1232AG-x-K9 LWAPP	AIR-AP1210	AIR-MP21G and AIR-RM22A	x = • A = FCC • C = China • E = ETSI • I = Israel • J = TELEC (Japan) • K = Korea • N = North America (Excluding FCC) • P = Japan2 • S = Singapore • T = Taiwan

* See section on regulatory domains below.

PRODUCT DESCRIPTION

Table 3 describes each of the parts identified previously.

Table 3. Cisco Aironet 1230AG Series Components

Cisco Aironet 1230AG Series Access Point	
The Cisco Aironet 1230AG Series platform is the basic electronic chassis of the access point. It is configured with both 802.11a and 802.11g radios. Each access point ships with a 110–220 VAC local power supply, and is available with Cisco IOS Software. This preconfigured bundle includes:	
AIR-AP1210	Cisco IOS Software Release 12.3(7)JA or later LWAPP 3.1 or later
Radio Modules	The radio module provides the radio frequency interface required for wireless connectivity.
802.11a Radio Module	• IEEE 802.11a-compliant • AIR-RM22A radio module • CardBus form factor • 5 GHz operations • Up to 54 Mbps • Dual RP-TNC connectors for externally attached antennas (sold separately)
802.11g Radio Module	• IEEE 802.11g-compliant • AIR-MP21G radio module • Mini-PCI form factor • 2.4 GHz operations • Up to 54 Mbps • Dual RP-TNC connectors for externally attached antennas (sold separately)
Power Injectors	Cisco Aironet 1230AG Series access points may be powered with the local power supply included with the access point, or by using powering equipment capable of providing Cisco inline power over Ethernet, such as Cisco Aironet power injectors or Cisco inline powered switches and routers. The powering equipment must be able to support the power requirements listed below.
802.11a/g (Dual Radio)	12W

Cisco Aironet 1230AG Series Access Point	
The Cisco Aironet power injectors listed below provide sufficient power for the Cisco Aironet 1230AG Series. The power injectors are used in combination with the 110–220 VDC power supply that is shipped with the Cisco Aironet 1230AG Series Access Point.	
AIR-PWRINJ3	• Cisco Aironet Power Injector for Cisco Aironet 1100 Series and 1200 Series access points • RJ-45 Ethernet LAN connection
AIR-PWRINJ-FIB	• Cisco Aironet Power Injector Media Converter • MT-RJ (multimode fiber) LAN connection
Console Cable	
This optional cable may be used in the initial installation and setup of the access point.	
AIR-CONCAB1200	Auxiliary/console port cable

When ordering the items listed above separately from the product, use the spare part number by appending an equal sign ("=") to the part number. For example, order AIR-PWRINJ3= if ordering the Cisco Aironet Power Injector under a separate order line item.

REGULATORY DOMAINS

Regulatory domains are used to distinguish groups of countries that adhere to the same or similar regulations for radio usage with regards to available channels and transmit power. Cisco Aironet radio products are set at the factory to allow a particular channel set and maximum transmit power; this is reflected in the part number as the single character following the model number (for example, in AIR-AP1232AG-A-K9, the regulatory domain is represented by "-A-"). Customers must select the regulatory domains that correspond to their particular countries when choosing a radio module for use in their access points, or when choosing preconfigured bundles.

Cisco Aironet 1230AG Series access points are certified for use in many countries around the world, but have not been approved for use in all countries. For current worldwide approval status of Cisco Aironet 1230AG Series access points, visit: http://www.cisco.com/go/aironet/compliance

ANTENNAS

The 802.11g modules of the Cisco Aironet 1230AG Series support a flexible set of Cisco Aironet omnidirectional and directional antennas that can be mounted on walls, ceilings, or masts. The 802.11g radios do not come with antennas—they must be ordered separately. Similarly, the 802.11a radios do not come with antennas. Auxiliary 5 GHz antennas are required and should be ordered separately. Cisco Aironet 1230AG Series access points are certified for operation only with Cisco Aironet antennas. To ensure regulatory compliance, select Cisco Aironet antennas for use with Cisco 1200 Series access points.

A complete *Antenna Reference Guide* is available to assist users in selecting the proper antenna for specific deployment requirements: http://www.cisco.com/en/US/prod/collateral/wireless/ps7183/ps469/product_data_sheet09186a008008883b.html

Corporate Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters
Cisco Systems International BV
Haarlerbergpark
Haarlerbergweg 13-19
1101 CH Amsterdam
The Netherlands
www-europe.cisco.com
Tel: 31 0 20 357 1000
Fax: 31 0 20 357 1100

Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-7660
Fax: 408 527-0883

Asia Pacific Headquarters
Cisco Systems, Inc.
168 Robinson Road
#28-01 Capital Tower
Singapore 068912
www.cisco.com
Tel: +65 6317 7777
Fax: +65 6317 7799

Cisco Systems has more than 200 offices in the following countries and regions. Addresses, phone numbers, and fax numbers are listed on **the Cisco Website at www.cisco.com/go/offices.**

Argentina • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica • Croatia • Cyprus Czech Republic • Denmark • Dubai, UAE • Finland • France • Germany • Greece • Hong Kong SAR • Hungary • India • Indonesia • Ireland • Israel Italy • Japan • Korea • Luxembourg • Malaysia • Mexico • The Netherlands • New Zealand • Norway • Peru • Philippines • Poland • Portugal Puerto Rico • Romania • Russia • Saudi Arabia • Scotland • Singapore • Slovakia • Slovenia • South Africa • Spain • Sweden • Switzerland • Taiwan Thailand • Turkey • Ukraine • United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

205327.BX_ETMG_LS_8.05

Printed in the USA