

Cisco Aironet 1250 Series Ordering Guide

The Cisco® Aironet® 1250 Series is the first enterprise-class access point to support the IEEE 802.11n draft 2.0 standard that provides the versatility, high capacity, and enterprise-class features demanded by wireless LAN customers. It is a modular, dual-band access point with a choice of 2.4-GHz and 5-GHz IEEE 802.11n draft 2.0 radio modules. The Cisco Aironet AP1250 Series is designed for challenging RF environments such as factories, warehouses, and large retail establishments.

The Cisco Aironet 1250 Series may be ordered as follows:

- Access point platform with pre-installed radio modules: Includes the 1250 Access Point platform with pre-installed 2.4- and 5-GHz radio modules, or only a 2.4-GHz radio module. The combination of radio modules is determined by the part number.
- Individual components: The access point platform (no radio modules) and radio modules are separately orderable as spares.

Pre-installed Radio Modules

Table 1 lists the part numbers for the Cisco Aironet 1250 Series access point platform with pre-installed radio modules. Each part number corresponds to a specific combination of the Cisco Aironet 1250 Series access point platform and one or two radio modules. Access points ordered in this manner arrive with the radio modules installed in the access point platform.

Table 1. Cisco Aironet 1250 Series with Pre-installed Radio Modules

Part Number	Description	Access Point Platform	Radio Modules	Regulatory Domain
AIR-AP1252AG-x-K9 AIR-LAP1252AG-x-K9	802.11a/g/n-d2.0 2.4/5-GHz Mod Auto AP; 6 RP-TNC 802.11a/g/n-d2.0 2.4/5-GHz Mod Unified AP; 6 RP- TNC)	AIR-AP1250	AIR-RM1252A-x-K9 and AIR-RM1252G-A-K9	x= <ul style="list-style-type: none"> • A = FCC • C = China • E = ETSI • I = Israel • K = Korea • N = Non-FCC • P = Japan2 • S = Singapore • T = Taiwan
AIR-AP1252G-x-K9 AIR-LAP1252G-x-K9	802.11g/n-d2.0 2.4-GHz Mod Auto AP; 3 RP-TNC 802.11g/n-d2.0 2.4-GHz Mod Unified AP; 3 RP-TNC	AIR-AP1250	AIR-RM1252G-A-K9	x= <ul style="list-style-type: none"> • A = FCC • E = ETSI • P = Japan2

Cisco Aironet 1250 Series access point platforms with pre-installed radio modules ship with the following:

- Cisco Aironet 1250 Series access point and radio module(s)
- Mounting hardware kit

- One mounting plate, two 4 x 40 x 3/16 in screws, and a mounting plate latch (all attached to the access point)
- Two suspended ceiling T-rail clips, spacers (accommodates standard and recessed T-rails), and nuts
- Four 8 x 18 x 3/4 in pan head Phillips sheet metal screws
- Four #8 plastic wall anchors
- One 10 x 24 nut (for ground stud on the mounting plate)
- Two cable tie wraps
- Product quick start guide
- Translated safety warning document for the product
- Cisco product registration card

Note that in contrast to previous models of Cisco Aironet access points, an external AC power supply and power cord does not ship standard with Cisco Aironet 1250 Series Access Point. An optional external AC power supply is available, but is required only if AC power will be used to power the access point. The external AC power supply is not needed if the AIR-PWRINJ4 power injector is used to power the access point; the injector has its own integrated AC power supply. Refer to the section “Power Options” for additional details.

In addition to the standard contents listed above, there are several options available in the Cisco Configuration Tool that may be ordered in conjunction with the access point. These options are show in Table 2 below.

Table 2. Configuration Options for the Cisco Aironet 1250 Series with Pre-installed Radio Modules

Configuration Option	Selections	Description/Notes
2.4-GHz Antenna Options	<ul style="list-style-type: none"> • None¹ • AIR-ANT2422DG-R • AIR-ANT2422DB-R • AIR-ANT2422DW-R 	<ul style="list-style-type: none"> • No 2.4-GHz antenna • Three 2.4-GHz 2.2 dBi Gray Straight Dipole Ant RP-TNC • Three 2.4-GHz 2.2 dBi Black Dipole Antenna RP-TNC • Three 2.4-GHz 2.2 dBi White Dipole Antenna RP-TNC <p>Note: Additional antennas are available for the AP1250 as separately orderable spares. See the “Antennas” section below.</p>
5-GHz Antenna Options (Only available for part numbers with 5 GHz radios)	<ul style="list-style-type: none"> • None¹ • AIR-ANT5135DG-R • AIR-ANT5135DB-R • AIR-ANT5135DW-R 	<ul style="list-style-type: none"> • No 5-GHz antenna • Three 5-GHz 3.5 dBi Gray Straight Dipole Ant RP-TNC • Three 5-GHz 3.5 dBi Black Dipole Antenna RP-TNC • Three 5-GHz 3.5 dBi White Dipole Antenna RP-TNC <p>Note: Additional antennas are available for the AP1250 as separately orderable spares. See the “Antennas” section below.</p>
Power Option	<ul style="list-style-type: none"> • AIR-PWRINJ4 • AIR-PWR-SPLY1 • AIR-NO-PWR-SPPLY 	<ul style="list-style-type: none"> • Power Injector for the Cisco Aironet 1250 Series • Power Supply for the Cisco Aironet 1250 Series • Do not ship a power supply

¹ Default selection

Configuration Option	Selections	Description/Notes
Country Power Cord Opts	<ul style="list-style-type: none"> • None Selected • AIR-PWR-CORD-SW • AIR-PWR-CORD-SA • AIR-PWR-CORD-IS • AIR-PWR-CORD-DM • AIR-PWR-CORD-CH • AIR-PWR-CORD-AP • AIR-PWR-CORD-AR • AIR-PWR-CORD-AU • AIR-PWR-CORD-CE • AIR-PWR-CORD-IT • AIR-PWR-CORD-JP • AIR-PWR-CORD-NA² • AIR-PWR-CORD-UK 	<ul style="list-style-type: none"> • AIR Line Cord Switzerland • AIR Line Cord South Africa • AIR Line Cord Israel • AIR Line Cord Denmark • AIR Line Cord Main • AIR Line Cord Asia Pacific • AIR Line Cord Argentina/Uruguay • AIR Line Cord Australia • AIR Line Cord Central Europe • AIR Line Cord Italy • AIR Line Cord Japan • AIR Line Cord North America • AIR Line Cord United Kingdom
AIR Software Option for AP1250	<ul style="list-style-type: none"> • Autonomous • Unified (LWAPP) 	The software version number will vary over time as new software versions are released.
Console Cable Option	<ul style="list-style-type: none"> • None Selected • AIR-CONCAB1200 	<ul style="list-style-type: none"> • No console cable • Console Cable for 1130AG, 1200, 1230AG, 1240AG, 1250 Series

Configurable options will ship in the same box as the access point. Additional AP1250 Series antennas and accessories are also available and may be ordered separately as spares.

Individual Components

Table 3 lists the available spare part numbers for the Cisco Aironet 1250 Series access point platform and individual radio modules. Spares are not configurable.

Table 3. Cisco Aironet 1250 Series Part Numbers for Spares

Part Number	Description	Regulatory Domain
AIR-AP1250=	Modular Auto AP Platform (no radio modules); Spare	Not applicable
AIR-LAP1250=	Modular Unified AP Platform (no radio modules); Spare	Not applicable
AIR-AP1250MNTGKIT=	1250 Series Ceiling, Wall Mount Bracket kit; Spare	Not applicable
AIR-RM1252A-x-K9=	802.11a/n-2.0 5-GHz Radio Module; 3 RP-TNC; Spare	x= <ul style="list-style-type: none"> • A = FCC • C = China • E = ETSI • I = Israel • K = Korea • N = Non-FCC • P = Japan2 • S = Singapore • T = Taiwan
AIR-RM1252G-A-K9=	802.11g/n-d2.0 2.4-GHz Radio Module; 3 RP-TNC; FCC; Spare	x= <ul style="list-style-type: none"> • A = FCC • E = ETSI • P = Japan2

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

² Default selection for all AP1250 products in the -A regulatory domain

power; this is reflected in the part number as the single character following the model number (for example, in AIR-LAP1252AG-A-K9, the regulatory domain is represented by “-A”). Customers must select the regulatory domain that corresponds to their particular country when ordering an Aironet 1250 with pre-installed radio modules or spare radio modules.

Cisco Aironet 1250 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 1250 Series access points, visit http://www.cisco.com/application/pdf/en/us/guest/products/ps5861/c1650/cdccont_0900aec80537b6a.pdf. Note that because regulatory requirements change frequently, the version applicable for your country may have changed from previous-generation Cisco Aironet products.

Antennas

Each radio module for the Cisco Aironet 1250 Series requires external antennas, which must be ordered as a configurable option or separately as spares. The number of antennas each access point or radio module supports is included in the Global Price List description (for example, 3 RP-TNC).

Table 4 contains a list of the new antennas being introduced with the Cisco Aironet 1250 Series. Additional antennas are also available as described in the Cisco Aironet 2.4-GHz and 5-GHz Antennas and Accessories Data Sheet. Note that Cisco Aironet 1250 Series Access Points are certified for operation only with Cisco Aironet antennas; to ensure regulatory compliance, select Cisco Aironet antennas for use with Cisco 1250 Series Access Points.

Table 4. Cisco Aironet 1250 Series Antenna Part Numbers for Spares

Part number	Product Description
AIR-ANT2430V-R=	2.4-GHz 3 dBi Triple Omni Antenna 3 RP-TNC; Spare
AIR-ANT5140V-R=	5-GHz 4 dBi Triple Omni Antenna 3 RP-TNC; Spare
AIR-ANT2422DG-R=	2.4-GHz 2.2 dBi Gray Straight Dipole Ant RP-TNC Qty 1; Spare
AIR-ANT5135DG-R=	5-GHz 3.5 dBi Gray Straight Dipole Ant RP-TNC Qty 1; Spare

For more information on antenna options, visit <http://www.cisco.com/en/US/products/hw/wireless/ps469/index.html>.

Power Options

The Cisco Aironet 1250 Series Access Point may be powered by a Cisco Ethernet switch, a power injector, or a local power supply.

Caution: The Aironet 1250 Series Access Point with **two** RM1252 radio modules installed requires greater than the 12.95W allowed for by the 802.3af standard. Certain Cisco Ethernet switches are capable of providing this greater amount of power and can fully power the Aironet 1250 Series Access Point with two RM1252 radio modules installed. Refer to the Aironet 1250 Series Access Point data sheet for further details.

Caution: Unlike previous models of Cisco Aironet access points, an external AC power supply and power cord does not ship standard with the Cisco Aironet 1250 Series. If one is required, it can be configured when the access point is ordered, or ordered as a spare.

If an Ethernet switch with Power over Ethernet is not being used, the power injector or power supply must be ordered either as a configurable option or as a spare. If ordered as a configurable

option, the power injector or power supply will ship in the same box as the access point. Power options may also be ordered separately as spares as shown in Table 5.

Table 5. Cisco Aironet 1250 Series Power Option Part Numbers for Spares

Part number	Product Description
AIR-PWRINJ4=	Power Injector - 1250 Series; Spare
AIR-PWR-SPLY1=	Power Supply - 1250 Series; Spare

The following powering options are not supported by the Aironet 1250 Series Access Point:

- Cisco PoE (6W)
- Cisco PoE (13W)
- Cisco mid-span
- AIR-PWR-A
- PWRINJ-FIB
- PWRINJ3
- AIR-PWRINJ1500

Software

The Cisco Aironet 1250 Series can be ordered with Cisco IOS® Software to operate as an autonomous access point or with the Lightweight Access Point Protocol (LWAPP) software to operate as part of the Cisco Unified Wireless Network. To gain the full breadth of mobility services, the Cisco Aironet 1250 Series should be deployed with LWAPP, requiring a connection to a WLAN controller.

Console Cable

The Cisco Aironet 1250 Series can be configured and monitored using the console port. A console cable does not ship by default with the access point. When you order the access point with pre-installed radio modules, the console cable is available as a configurable option. If ordered as a configurable option, the console cable will ship in the same box as the access point. The console cable may also be ordered separately as a spare (Table 6).

Table 6. Cisco Aironet 1250 Series Console Cable Part Number

Part Number	Product Description
AIR-CONCAB1200=	Cisco Aironet 1130AG, 1200, 1230, 1240 and 1250 Series Console Cable

Mounting Kit

The Cisco Aironet 1250 Series Access Point ships standard with a mounting bracket and hardware. A spare mounting kit may be purchased separately (Table 7).

Table 7. Cisco Aironet 1250 Series Mounting Bracket Part Number

Part Number	Product Description
AIR-AP1250MNTGKIT=	AP1250 Access Point Ceiling/Wall Mount Bracket Kit, spare



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