

## Cisco Aironet 1500 Series Lightweight Outdoor Mesh Access Point

Cisco® Aironet® 1500 Series solution components can be ordered by individual part numbers. Alternatively, for ease of ordering, you can specify a single part number that expands to include certain components relevant to a particular installation. Note that for a safety-compliant outdoor installation, you may need other items that are not included in the bundle, such as surge arrestors.

Cisco Aironet 1500 Series Lightweight Outdoor Mesh Access Points can take either of two roles in a mesh network: rooftop access point and pole top access point. Different accessories are required for the different installations.

Minimally, the access point requires the following:

- Power
- One 2.4-GHz antenna
- One 5-GHz antenna

If the access point is to be installed on a streetlight pole or equivalent, the following is also required:

- One pole-mount kit

If the access point is to be installed on a roof, where it will be wired to the network, the following is also required:

- One Ethernet cable

A pole-mount kit might also be required for installation on a roof, depending on the installation method.

The rest of this ordering guide lists the part numbers for the various components of the Cisco Aironet 1500 Series solution.

### **Cisco Aironet 1500 Series Lightweight Outdoor Mesh Access Points**

Cisco Aironet 1500 Series Lightweight Outdoor Mesh Access Points are the main component of the mesh solution. Table 1 lists the available part numbers.

**Table 1.** Cisco Aironet 1500 Series Lightweight Outdoor Mesh Access Point Part Numbers

Part Number	Product Name
<b>AIR-LAP1510AG-A-K9</b>	Cisco Aironet 1510AG Lightweight Outdoor Mesh Access Point, FCC configuration
<b>AIR-LAP1510AG-C-K9</b>	Cisco Aironet 1510AG Lightweight Outdoor Mesh Access Point, China configuration
<b>AIR-LAP1510AG-K-K9</b>	Cisco Aironet 1510AG Lightweight Outdoor Mesh Access Point, Korea configuration
<b>AIR-LAP1510AG-N-K9</b>	Cisco Aironet 1510AG Lightweight Outdoor Mesh Access Point, non-FCC configuration
<b>AIR-LAP1510AG-P-K9</b>	Cisco Aironet 1510AG Lightweight Outdoor Mesh Access Point, TELEC configuration
<b>AIR-LAP1510AG-S-K9</b>	Cisco Aironet 1510AG Lightweight Outdoor Mesh Access Point, Singapore configuration

**Note:** The ETSI configuration for the Cisco Aironet 1510 Lightweight Outdoor Mesh Access Point, AIR-LAP1510AG-E-K9 is not orderable anymore. The replacement product is the Cisco Aironet 1522 Lightweight Outdoor Mesh Access Point, AIR-LAP1522AG-E-K9. For more information on this product visit <http://www.cisco.com/en/US/products/ps8586/index.html>.

The Cisco Aironet 1500 Series is certified for use only in certain countries. The part number distinguishes the regulatory domain for which it is designed. Customers are responsible for verifying approval for use in their country. To verify approval and to identify the regulatory domain that corresponds to a particular country, please visit: <http://www.cisco.com/go/aironet/compliance>.

Note that the part number does not distinguish between a rooftop or pole-top access point. The same device is used for either instance, with the role being configured in software.

Cisco Aironet 1500 Series Lightweight Outdoor Mesh Access Points ship with the following:

- Universal mounting plate
- Quick Start Guide

The universal mounting plate allows users to install the access point on a flat surface, such as a wall. It is also used in conjunction with the Cisco Aironet 1500 Series Pole-Mount Kit (listed next) to mount the access point to a pole.

Customers must provide the appropriate screws, bolts, and anchors for the material into which they will mount the access point. See the hardware installation guide for details.

### Pole-Mount Kit

The pole-mount kit is used to mount the access point to a pole. It is used along with the universal mounting plate, which ships with the access point. Table 2 shows the part number for the pole-mount kit.

**Table 2.** Cisco Aironet 1500 Series Pole-Mount Kit Part Number

Part Number	Product Name
<b>AIR-ACCPMK1500 =</b>	Cisco Aironet 1500 Series Pole-Mount Kit

The pole-mount kit supports poles up to 3.35 inches in diameter. It enables users to install the access points horizontally to the ground, even when the pole is sloped or angled.

## Power Supply Options

Table 3 shows the power supply options that are available for the Cisco Aironet 1500 Series.

**Table 3.** Cisco Aironet 1500 Series Power Supply Options and Part Numbers

Part Number	Product Name
<b>AIR-PWR-ST-LT-TAP =</b>	Cisco Aironet 1500 Series Streetlight Power Tap, 105-260 VAC
<b>AIR-PWRINJ1500 =</b>	Cisco Aironet 1500 Series Power Injector, In 100–240VAC, Out 48 VDC
<b>AIR-CORD1500-15NA=</b>	Cisco Aironet 1500 Series AC power cord, 15-ft, North American Plug
<b>AIR-CORD1500-40NA=</b>	Cisco Aironet 1500 Series AC power cord, 40-ft, North American Plug
<b>AIR-CORD1500-40UE=</b>	Cisco Aironet 1500 Series AC power cord, 40-ft, Untermated, EU Harmonized

The Cisco Aironet 1500 Series can be powered either by local AC power or by DC power over Ethernet.

- Power supplied at the top of streetlight poles is AC power. Use the Cisco Aironet 1500 Series Streetlight Power Tap or the AC power cord to plug the access point into this power source.
- When a Cisco Aironet 1500 Series access point is installed on the roof of a building, power can be supplied over Ethernet using a power injector. The power injector converts AC power into DC power and sends it along with the Ethernet signal to the access point. Use the Cisco Aironet 1500 Series Power Injector, along with the Cisco Aironet 1500 Series Outdoor Ethernet Cable (described next) to power the access point. Do not use any power injector other than the one specified here. You will need to specify the country-specific power cord with the power injector.

## Ethernet Cable

The Cisco Aironet 1500 Series Outdoor Ethernet Cable is used to connect the access point to the network when a network connection is available, such as when the access point is installed on the roof of a building. The Ethernet cable plugs into the Cisco Aironet 1500 Series Power Injector. Table 4 shows the part number for the Cisco Aironet 1500 Series Outdoor Ethernet Cable.

**Table 4.** Cisco Aironet 1500 Series Outdoor Ethernet Cable Part Number

Part Number	Product Name
<b>AIR-ETH1500-150 =</b>	Cisco Aironet 1500 Series Outdoor Ethernet Cable, 150 ft.

## Antennas

The Cisco Aironet 1500 Series provides two separate N connectors to attach the 2.4-GHz and 5-GHz antennas. Table 5 lists the antennas that are available for the Cisco Aironet 1500 Series.

**Table 5.** Antennas for Cisco Aironet 1500 Series

Part Number	Product Name
<b>2.4-GHz Antenna</b>	
AIR-ANT2455V-N =	2.4-GHz, 5.5-dBi Omnidirectional Antenna with N Connector
<b>5-GHz Antenna</b>	
AIR-ANT5175V-N =	4.9 to 5.8-GHz, 7.5-dBi Omnidirectional Antenna with N Connector
AIR-ANT58G10SSA-N =	5.8-GHz, 9.5-dBi Sector Antenna with N Connector

Cisco Aironet 1500 Series Access Points are also certified for use with higher gain antennas than those listed in Table 5. Please see the hardware installation guide for alternative antennas available from third-party vendors.

### Simplified Ordering Part Numbers

To simplify ordering, the following single part numbers can be ordered and will include the listed components. Note that the components will ship in individual packaging and may ship in different sets. These bundles are available only for the FCC configuration of the access point.

Table 6 shows the part number for the Cisco Aironet 1500 Series Pole-Top Kit.

**Table 6.** Cisco Aironet 1500 Series Pole-Top Kit Part Number

Part Number	Product Name
<b>AIR-LAP1510KITP-A</b>	Cisco Aironet 1500 Series Pole-Top Kit, 2.4-GHz Omni 5-GHz Omni

The pole-top kit includes the following:

- Cisco Aironet 1510 Lightweight Outdoor Mesh Access Point, FCC Configuration (AIR-LAP1510AG-A-K9)
- Cisco Aironet 1500 Series Pole-Mount Kit (AIR-ACCPMK1500)
- Cisco Aironet 1500 Series Streetlight Power Tap (AIR-PWR-ST-LT-TAP)
- 2.4-GHz, 5.5-dBi Omnidirectional Antenna with N Connector (AIR-ANT2455V-N)
- 4.9 to 5.8-GHz, 7.5-dBi Omnidirectional Antenna with N Connector (AIR-ANT5175V-N)

Table 7 shows the part number for the Cisco Aironet 1500 Series Roof-top Kit, with omnidirectional antennas for both the 2.4-GHz and 5 GHz radio.

**Table 7.** Cisco Aironet 1500 Series Roof-top Kit Part Number, with Omnidirectional Antennas

Part Number	Product Name
<b>AIR-LAP1510KITRO-A</b>	Cisco Aironet 1500 Series Roof-top Kit, 2.4-GHz Omni 5-GHz Omni

The rooftop kit with omnidirectional antennas includes the following:

- Cisco Aironet 1510 Lightweight Outdoor Mesh Access Point, FCC Configuration (AIR-LAP1510AG-A-K9)
- Cisco Aironet 1500 Series Power Injector (AIR-PWRINJ1500)
- Cisco Aironet 1500 Series Outdoor Ethernet Cable (AIR-ETH1500-150)
- 2.4-GHz, 5.5-dBi Omnidirectional Antenna with N Connector (AIR-ANT2455V-N)
- 4.9 to 5.8-GHz, 7.5-dBi Omnidirectional Antenna with N Connector (AIR-ANT5175V-N)

Table 8 shows the part number for the Cisco Aironet 1500 Series Roof-top Kit, with the omnidirectional antenna for the 2.4-GHz radio and the sector antenna for the 5-GHz radios.

**Table 8.** Cisco Aironet 1500 Series Roof-top Kit Part Number, with Omnidirectional and Sector Antennas

Part Number	Product Name
<b>AIR-LAP1510KITRS-A</b>	Cisco Aironet 1500 Series Roof-Top Kit, 2.4 Omni 5GHz Sector

The rooftop kit with omnidirectional and sector antennas includes the following:

- Cisco Aironet 1510 Lightweight Outdoor Mesh Access Point, FCC Configuration (AIR-LAP1510AG-A-K9)
- Cisco Aironet 1500 Series Power Injector (AIR-PWRINJ1500)
- Cisco Aironet 1500 Series Outdoor Ethernet Cable (AIR-ETH1500-150)
- 2.4-GHz, 5.5-dBi Omnidirectional Antenna with N Connector (AIR-ANT2455V-N)
- 5.8-GHz, 9.5-dBi Sector Antenna with N Connector (AIR-ANT58G10SSA-N)

### Starter Kit Order Part Numbers

There are two starter kits available for order. One starter kit has 5 wireless mesh access points; the other has 25 wireless mesh access points. Table 9 shows the part number for the 5 access point starter kit.

**Table 9.** Cisco Aironet 1500 Series—5 Access Points Starter Kit

Part Number	Product Name
<b>AIR-LAP1510BUN0501</b>	5 Access Points Starter Kit (for FCC countries)

The Cisco Aironet 1500 Series 5 access point starter kit includes:

- 5 Cisco Aironet 1510 Access Points, FCC configuration (AIR-LAP1510AG-A-K9)
- 5 Cisco Aironet 1500 Series Pole Mount Kits (AIR-ACCPMK1500)
- 5 Cisco Aironet 1500 Series Streetlight Power Taps (AIR-PWR-ST-LT-TAP)
- 5 Cisco Aironet 1500 Series Power Injectors (AIR-PWRINJ1500)
- 5 Cisco Aironet 1500 Series Outdoor Ethernet Cables (AIR-ETH1500-150)
- 5 Cisco Aironet 1500 Series 2.4-GHz, 5.5-dBi Omnidirectional Antennas with N Connectors (AIR-ANT2455V-N)
- 5 Cisco Aironet 1500 Series 5.8-GHz, 9.5-dBi Sector Antennas with N connectors (AIR-ANT58G10SSA-N)
- 1 Cisco 2000 Series Wireless LAN Controller for up to six Cisco lightweight access points (AIR-WLC2006-K9)
- 1 Cisco Wireless Control System with Location up to 50 Cisco lightweight access points W2K/2003 (AIR-WCS-WL-1.0-K9)

Table 10 shows the part number for the 25 access point starter kit.

**Table 10.** Cisco Aironet 1500 Series—25 Access Points Starter Kit

Part Number	Product Name
<b>AIR-LAP1510BUN2501</b>	25 Access Points Starter Kit (for FCC countries)

The Cisco Aironet 1500 Series 25 access point starter kit includes:

- 25 Cisco Aironet 1510 Access Points, FCC configuration (AIR-LAP1510AG-A-K9)
- 25 Cisco Aironet 1500 Series Pole-Mount Kits (AIR-ACCPMK1500)
- 25 Cisco Aironet 1500 Series Streetlight Power Taps (AIR-PWR-ST-LT-TAP)
- 10 Cisco Aironet 1500 Series Power Injectors (AIR-PWRINJ1500)

- 10 Cisco Aironet 1500 Series Outdoor Ethernet Cables (AIR-ETH1500-150)
- 25 Cisco Aironet 1500 Series 2.4-GHz, 5.5-dBi Omnidirectional Antennas with N Connector (AIR-ANT2455V-N)
- 25 Cisco Aironet 1500 Series 5.8-GHz, 9.5-dBi Sector Antennas with N Connectors (AIR-ANT58G10SSA-N)
- 1 Cisco 4400 Series Wireless LAN Controller for up to 100 Cisco lightweight access points (AIR-WLC4004-100-K9)
- 1 Cisco Wireless Control System with Location up to 50 Cisco lightweight access points W2K/2003 (AIR-WCS-WL1.0-K9)



**Xbridge Services Ltd**  
**Unit G, Darren Drive**  
**Prince of Wales Est.**  
**Abercarn, S.Wales**  
**NP11 5AR**

**UK: 0844 6996003**  
**T: +44 1495 360003**  
**F: +44 1495 360004**  
**E: sales@xbridge.uk.net**  
**w: www.xbridge.uk.net**



**Americas Headquarters**  
 Cisco Systems, Inc.  
 San Jose, CA

**Asia Pacific Headquarters**  
 Cisco Systems (USA) Pte. Ltd.  
 Singapore

**Europe Headquarters**  
 Cisco Systems International BV  
 Amsterdam, The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at [www.cisco.com/go/offices](http://www.cisco.com/go/offices).

CCDF, CCVP, Cisco Box, Cisco StadiumVision, the Cisco logo, DDF, and Welcome to the Human Network are trademarks; Changing the Way We Work, Live, Play and Learn is a service mark; and Access Register, Aironet, AsyncOS, Bringing the Meeting To You, Catalyst, CCBA, CCDF, CCSE, CCSP, CCNA, CCNP, CCSP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco ICS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Collaboration Without Limitation, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Event Center, Fast Step, Follow Me Browser, FormShare, GigaDrive, HomeLink, Internet Quicker, IOS, IPPhone, IP TV, IQ Expertise, the IQ logo, IQ Net Readiness Scorecard, iQuick Study, IronPort, the IronPort logo, LightStream, Linksys, MediaTone, MeetingPlace, MEX, Networkers, Networking Academy, Network Registrar, PCNow, PIX, PowerPanels, ProConnect, ScriptShare, SenderBase, SNAFirst, Spectrum Expert, StackWise, The Fastest Way to Increase Your Internet Quotient, TransPath, WebEx, and the WebEx logo are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (08011)