# Cisco Aironet 1520 Series Lightweight Outdoor Mesh Access Point

# **Product Overview**

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Cisco<sup>®</sup> Aironet<sup>®</sup> 1520 Series Lightweight Outdoor Mesh Access Point (Figure 1) enables costeffective and scalable deployment of a secure outdoor wireless LANs. The Cisco Aironet 1520 Series is designed for municipal Wi-Fi deployments for public access, public safety, or managed services, and for enterprise campus outdoor Wi-Fi extensions.

Figure 1. Cisco Aironet 1520 Series



The Cisco Aironet 1520 Series supports dual-band radios compliant with IEEE 802.11a and 802.11b/g standards. Various uplink connectivity options are supported such as Gigabit Ethernet (1000BaseT), and small form-factor pluggable (SFP) slot for fiber (100BaseBX) or cable modem interface. Power options supported includes 480VAC, 12VDC, cable power, Power over Ethernet (POE), and internal battery backup power. It also employs <u>Cisco's Adaptive Wireless Path Protocol</u> (<u>AWPP</u>) to form a dynamic wireless mesh network between remote access points, while delivering secure, high-capacity wireless access to any Wi-Fi-compliant client device (Figure 2).

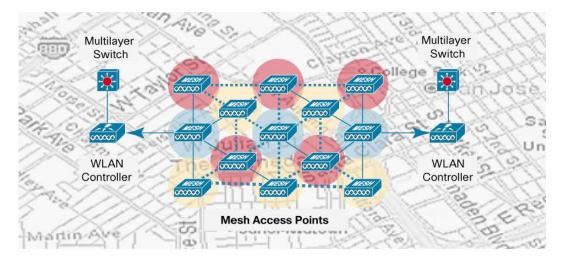
The Cisco Aironet 1520 Series lightweight outdoor mesh access point's dual-radio configuration dedicates the 802.11a radio to access-point-to-access-point communications, allowing the mesh network to maximize all available channels, minimize the occurrence of interference from unlicensed devices, and minimize latency. The dual-radio configuration delivers high system capacity through pico-cellular designs and support for real-time applications such as voice and video.

Key Features on the Cisco Aironet 1520 Series are:

- · Modular design to integrate a selection of radios
- Dual-radio support (802.11a, 802.11b/g)
- Improved 802.11b/g radio sensitivity and range performance on the three-channel Maximal Ratio Combining (MRC)
- Multiple uplink options (Gigabit Ethernet-1000BaseT, Fiber-100BaseBX, and cable modem interface)

- Multiple power options (Power over Ethernet, cable power, 480 VAC Streetlight Power, 12 VDC, and internal battery backup power)
- 802.3af-compliant Power over Ethernet out to connect power source equipment (PSE) IP devices
- NEMA 4X certified enclosure, certification for hazardous locations (Class 1, Division 2 / Zone 2. Group B,C,D – United States/Canada/EU)
- FIPS 140-2 certifiable
- Paintable enclosure
- LED status indicators





# Architecture

The Cisco Aironet 1520 Series is a component of the <u>Cisco Unified Wireless Network</u> and <u>Cisco</u> <u>Outdoor Wireless Networking Solutions</u>. The unified architecture centralizes key functions of the wireless LAN to provide scalable management, advanced security, seamless mobility, proven reliability, and mobility services, such as multiple Service Set Identifiers (SSIDs) and quality of service (QoS) for voice, video, and data applications. The Cisco Aironet 1520 Series is managed and monitored by Cisco wireless LAN controllers and the Cisco Wireless Control System (WCS). It supports zero-touch configuration deployment to easily and securely join the mesh network. Flexible, high-powered, high-sensitivity radio options, along with a selection of high-gain antennas, allow coverage to be scaled as capacity needs increase. Uplink connectivity can be via Gigabit Ethernet, fiber, or cable. The Cisco Aironet 1520 Series is compliant with Wi-Fi Protected Access 2 (WPA2), which employs hardware-based Advanced Encryption Standard (AES) encryption between wireless nodes to provide end-to-end, enterprise-class security.

#### Self-Configuring and Self-Healing Mesh

The Cisco Aironet 1520 Series mesh access point can be installed anywhere power is available, without the need for a network connection. Intelligent wireless routing is based on the Cisco's Adaptive Wireless Path Protocol (AWPP), which is designed specifically for wireless environments. AWPP enables a remote access point to dynamically optimize the best route to the connected network within the mesh, providing resiliency to interference and helping ensure high network capacity.

Deployment and management costs for the Cisco Aironet 1520 Series are reduced through support of zero-configuration deployments and through the ability of the access points to self-heal in response to interference or outages. The mesh access point can act as a relay node and can associate clients at the same time.

The Cisco Aironet 1520 Series has a dedicated radio for the backhaul and another radio for local access, allowing the mesh network to maximize use of the total available channels and minimize the occurrence of interference. This results in more capacity than is available with solutions that use only a single radio. When more capacity is needed, additional sectors can be enabled—for example, by provisioning a network connection to a remote access point. The mesh dynamically re-optimizes itself when this is done.

## **Zero-Touch Configuration**

Using the Cisco Lightweight Access Point Protocol (LWAPP) features, the Cisco Aironet 1520 Series mesh access point can discover its LWAPP controller and automatically download the correct configuration and software for its role in the wireless mesh network.

#### **Cisco Adaptive Wireless Path Protocol (AWPP)**

Wireless mesh networks have unique features and requirements, and to address these features and requirements Cisco has built a new protocol that allows each node to determine its neighbor or parent intelligently, choosing the optimal path toward the controller. Unlike traditional routing protocols, AWPP takes RF details into account.

The AWPP automatically determines the best path back to the LWAPP controller by calculating the cost of each path in terms of signal strength and number of hops. After the path is established, AWPP continuously monitors conditions and changes routes to reflect changes in conditions. AWPP also performs a smoothing function by signaling condition information to ensure that the ephemeral nature of RF environments does not impact network stability.

## **Robust Embedded Security**

A core component of the Cisco Unified Wireless Solution is the use of X.509 certificates and AES encryption for LWAPP transactions. This X.509 and AES encryption is embedded into the wireless mesh solution with LWAPP transactions and by AES encrypting all traffic between mesh nodes. The complete packet path is from the Cisco controller to the access points and eventually to the users. The controller encapsulates user packets and forwards them to the correct rooftop access point (RAP) over Ethernet. RAP then encrypts the user data packets and transfers them over the backhaul. Data packets may travel through multiple mesh access points (MAPs) before reaching the destination MAP. After receiving the encrypted user data, the destination MAP decrypts them and sends them over the air to the client using the encryption method specified by the client.

For mutual authentication, Extensible Authentication Protocol / Pre-Shared Key (EAP / PSK) is now supported between the mesh access point nodes.

#### **Seamless Mobility**

The same seamless mobility features delivered through the Cisco Unified Wireless Solution are delivered in the Cisco Outdoor Wireless Networking solution. Users can seamlessly roam in outdoor environments between the various Cisco Aironet 1520 mesh access points at different locations. If there is a Cisco indoor wireless network infrastructure, the user can also roam between the indoor and outdoor environment.

## Layer 2 or Layer 3 Network Operation

Just as the Cisco Unified Wireless Network solution allows the LWAPP access points to communicate with the controller via a Layer 2 (L2) or Layer 3 (L3) network, this flexibility is extended to the outdoor wireless mesh network.

## **Highly Scalable**

The Cisco Outdoor Wireless Networking solution can scale to 24 controllers each with up to 16 multiple Basic Service Set Identifiers (BSSIDs) and 256 VLANs. Each Cisco 4400 Series controller can support up to 100 Cisco Aironet 1520 mesh access points. Capacity in a mesh network can be increased conveniently by adding the mesh access points at the edge of the network or by configuring more rooftop access points in the network.

# **Applications**

The Cisco Aironet 1520 Series is designed specifically for outdoor environments. It features antenna connectors for extended range or coverage versatility and more flexible installation options. In outdoor municipal wireless applications, for example, network operator can place Cisco Aironet 1520 Series mesh access points on buildings, or mount them on lamp posts, cable strands, and antenna towers connected with a wired connection. Several uplink connectivity options such as Gigabit Ethernet, fiber, and cable are supported on the Cisco Aironet 1520 Series. This provides flexibility for deploying the mesh access point anywhere in the community. The access point without wired connection will use the 5-GHz radio to wirelessly connect to the other mesh access point for backhaul to the network.

The metal housing enclosure of the Cisco Aironet 1520 Series provides the ruggedness and extended operating temperature range required in harsh outdoor, hazardous environments such as oil fields and mining pits, where explosion may occur. The rugged enclosure allows the mesh access point to maximize network uptime, remaining available and reliable even in severe weather conditions.

With the 802.3af compliant PoE feature, mesh access points can connect to other IP devices such as video surveillance cameras and IP sensors. This allows easy and quick deployment of missioncritical monitoring applications at locations where infrastructure does not exists. Video cameras and monitor sensors can take advantage of the mesh access point to connect to the network, and data can be transmitted via secure Wi-Fi. With internal battery power backup, the mesh access point will continue to function reliably even when the power is temporarily down. This allows the network operator to continue to monitor any incident while the power is being restored.

## **Features and Benefits**

Table 1 describes the features and benefits of Cisco Aironet 1520 Series Lightweight Outdoor Mesh Access Points.

## Table 1. Features and Benefits

Feature	Benefit	
Adaptive Wireless Path	<ul> <li>Forms a wireless mesh network between nodes.</li> </ul>	
Protocol (AWPP)	<ul> <li>Designed specifically for a multiradio platform to handle acute environmental interference as well as self-interference, optimizing</li> </ul>	
	<ul> <li>system-level network performance.</li> </ul>	
	<ul> <li>Dynamically optimizes traffic routes between nodes for high network resiliency and hig system capacity.</li> </ul>	
	<ul> <li>Self-heals from interference or outages, reducing management costs.</li> </ul>	
	<ul> <li>Optimal Parent Selection scans all available channels to ensure that the mesh optimizes network capacity.</li> </ul>	
	<ul> <li>Exclusion listing provides and advance intelligence at the access point to exclude as a parent any access point through which a link to the controller cannot be established.</li> </ul>	
Bridging	<ul> <li>Bridges remote networks over wireless in a point-to-point or point-to-multipoint configuration, eliminating leased lines or providing an alternative backhaul.</li> </ul>	
	• Allows remote peripherals, such as security cameras, to be bridged to the network.	
	<ul> <li>Wireless link-distance adjustment allows the 802.11 protocols to be tuned for optimal performance over extended bridging distances.</li> </ul>	
Flexible, integrated dual-radio	<ul> <li>Dual-radio option provides separate channels for the mesh infrastructure and client access, enabling pico-cellular design, minimizing system interference, and delivering high system capacity.</li> </ul>	
	<ul> <li>Complies with 802.11a and 802.11b/g standards for interoperability with any</li> <li>Wi-Fi-compliant client.</li> </ul>	
	<ul> <li>Supports optional wireless backhaul over the 4.9-GHz band for reduced interference for public safety licensees.</li> </ul>	
	<ul> <li>Single, integrated design simplifies deployment and management.</li> </ul>	
Standards-based LWAPP	<ul> <li>Centralizes functions of wireless LANs at Cisco wireless LAN controllers to enable intelligent, system-level device and RF management, security, and mobility across and between subnets.</li> </ul>	
	• Provides a consistent WLAN architecture between indoor and outdoor deployments.	
	<ul> <li>Managed through easy-to-use and intuitive interfaces on Cisco wireless LAN controller and Cisco WCS software.</li> </ul>	
Security	<ul> <li>X.509 digital certification prevents unauthorized devices from joining the wireless mesh network.</li> </ul>	
	<ul> <li>Hardware-based AES encrypts access-point-to-access-point traffic to help ensure privacy.</li> </ul>	
	<ul> <li>The Cisco wireless LAN controllers define the security policy for centralized applications.</li> </ul>	
	<ul> <li>Supports 802.11i, WPA2, and WPA standard security authentication and encryption for interoperability with any Wi-Fi-compliant client. Supported EAP types include subscribe identity module (SIM),Protected EAP (PEAP), Transport Layer Security (TLS), Tunnele Transport Layer Security (TTLS), and Cisco LEAP.</li> </ul>	
	EAP / PSK is supported for mutual authentication between mesh access point nodes	
Zero-touch configuration deployment	<ul> <li>Allows access points to securely join the wireless mesh network without needing to be configured on site at installation, reducing deployment costs.</li> </ul>	
	<ul> <li>Simplifies installations of new mesh access point when Bridge Group Names (BGN) a used.</li> </ul>	
Radio Resource Management (RRM)	<ul> <li>Interoperates with software at the controller to create an intelligent RF plane for self- configuration, self-healing, and self-optimization.</li> </ul>	
	<ul> <li>Detects interference from existing, unrelated WLAN access points and adjusts the RF parameters to optimize network performance.</li> </ul>	
Quality of Service	<ul> <li>Support for 802.11e Wi-Fi Multimedia (WMM) provides quality of service and seamles roaming for high-priority traffic such as voice or video.</li> </ul>	
	<ul> <li>Provides differentiated services for high-priority traffic.</li> </ul>	
	<ul> <li>Enables public safety and enterprise voice over IP (VoIP) and video applications.</li> </ul>	
Guest Access	<ul> <li>Support for guest user access through a webpage redirect to a login portal or to a public WLAN services gateway.</li> </ul>	
Multiple Basic Service Set Identifiers (BSSIDs	<ul> <li>16 BSSIDs allow multiple virtual WLANs for different user types, such as public access municipal services, police, or fire departments, and also enable wholesale business models.</li> </ul>	
Web authentication	<ul> <li>Interfaces to remediation server to support third-party billing platforms.</li> </ul>	

Feature	Benefit
Uplink options: • Cable Modem DOCSIS 2.0 with Cable Power Supply • Fiber Interface with 100BaseBX SFP • 1000BT Gig Ethernet	<ul> <li>Provides a flexible, cost-effective, and speedy deployment using various uplink connectivity options.</li> </ul>
Internal battery backup	Increased availability and reliability of network during power outages.
802.3af compliant Power over Ethernet (PoE) out	Provides flexibility and speedy deployment of IP devices in the field that connect to the mesh access point
Rugged Enclosure	Maximizes network uptime through reliability in severe weather conditions, including rain, lightning, wind and vibration from storms or road traffic.

# Summary

The Cisco Aironet 1520 Series is ideal for outdoor wireless deployments, scaling from enterprise extensions of indoor wireless LANs to metropolitan-sized deployments. It supports a dual-radio configuration that enables pico-cellular designs to deliver high system capacity and a single-radio configuration that supports moderate capacity needs. Cisco's Adaptive Wireless Path Protocol (AWPP), designed specifically for wireless environments, provides dynamic path optimization and self-healing capabilities, making the Cisco Aironet 1520 Series easy to use and minimizing management costs.

The Cisco Aironet 1520 Series is part of the innovative Cisco Unified Wireless Network. It works with Cisco wireless LAN controllers and Cisco WCS to enable centrally, at a systems level, all management, security, and mobility services capabilities. This allows the network to smoothly operate across the indoor and outdoor wireless LAN.

Cisco Aironet 1520 Series Lightweight Outdoor Mesh Access Points deliver industry-leading performance for wireless mesh networking.

# **Product Specifications**

Table 2 lists specifications for the Cisco Aironet 1520 Series.

Table 2.	Cisco Aironet 1520 Series Product Specifications
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Item	Specification		
Wireless standards	Dual-radio configuration • 802.11a • 802.11b/g		
Media Access Protocol	Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)		
Data rates and modulation	<ul> <li>802.11a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps, Orthogonal Frequency Division Multiplexing (OFDM)</li> <li>802.11b: 11, 5.5, 2, 1 Mbps, Direct Sequence Spread Spectrum (DSSS)</li> <li>802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps, OFDM</li> </ul>		
Dual-radio option—Frequency	Regulatory version	802.11a	802.11b/g
band and operating channels	-A	5.725–5.850 GHz 5 channels 4.940–4.990 GHz 2 channels	2.412–2.462 GHz 11 channels ( 3 non-overlapping channels)
	-N	5.725–5.850 GHz 5 channels	2.412–2.462 GHz 11 channels (3 non-overlapping channels)

Item	Specification		
Transmit power	Maximum:		
(Maximum transmit power will	• 2.4 GHz: 28 dBm		
vary by channel, data rate, and	• 4.9 GHz: 20 dBm		
individual country regulations)	• 5.8 GHz: 28 dBm		
Receive sensitivity (typical)	802.11a	802.11b	802.11g with MRC
Receive sensitivity (typical)	6 Mbps: –91 dBm	1 Mbps: –96 dBm	1 Mbps: –96 dBm
	9 Mbps: –90 dBm	2 Mbps: –96 dBm	2 Mbps: -96 dBm
	12 Mbps: -89 dBm	5.5 Mbps: –95dBm	5.5 Mbps: –95 dBm
	18 Mbps: -86 dBm	11 Mbps: –92 dBm	6 Mbps: –91 dBm
	24 Mbps: -84 dBm		9 Mbps: –91 dBm
	36 Mbps: -80 dBm		11 Mbps: –92 dBm
	48 Mbps: –76 dBm		12 Mbps: –91 dBm
	54 Mbps: –73 dBm		18 Mbps: -90 dBm
			24 Mbps:89 dBm
			36 Mbps: –86 dBm
			48 Mbps:80 dBm
			54 Mbps: -80 dBm
Network interface	• 802.3u 10/100 Ethernet, a	utosensina	
	<ul> <li>Fiber SFP; single strand, s</li> </ul>		
	Cable (DOCSIS 2.0 Stand	-	
Networking features	16 Basic SSIDs		
Networking reatures	HTTP Webpage redirect		
••			
Management	LWAPP-based		
	Managed by Cisco wireless LAN controller and Cisco Wireless Control System		
Security	Wireless bridging/mesh		
	<ul> <li>X.509 digital certificates</li> </ul>		
	<ul> <li>MAC address authentication</li> </ul>		
	Hardware-assisted AES er	ncryption	
	Wireless access		
	• 802.11i		
	LEAP	-	EAP-TLS, EAP-TTLS, Cisco Protocol-Message Identity Check
	<ul> <li>Traduvale-assisted ALS, V (TKIP-MIC) encryption</li> <li>VPN pass-through</li> </ul>	VFA, Temporar Key integrity	Flotocol-wessage identity check
		2 Tunneling Protocol (I 2TP)	
	<ul> <li>IP Security (IPsec), Layer 2 Tunneling Protocol (L2TP)</li> <li>MAC address filtering</li> </ul>		
Compliance	Safety		
Compliance	• UL 60950		
	<ul> <li>CAN/CSA-C22.2 No. 6095</li> </ul>	50	
	• IEC 60950		
	<ul> <li>EN 60950</li> </ul>		
	Radio approvals		
	• FCC Part 15.247, 90.210		
	<ul> <li>FCC Bulletin OET-65C</li> </ul>		
	• RSS-210		
	• RSS-102		
	<ul> <li>AS/NZS 4268.2003</li> </ul>		
	EMI and susceptibility		
	• FCC part 15.107, 15.109		
	• ICES-003		
	• EN 55022		
Dimensions	12.0 in x 7.8 in x 6.4 in. (30.48	cm x 19.81 cm x 16.26 cm)	
	(including antenna mount)		
Weight	14 lbs (6.35 kg)		
Operating temperature	–40 to 55°C (–40 to 131°F) plu	us Solar Loading	
Storage temperature	–50 to 85°C (–58 to 185°F)		

Item	Specification
Environmental ratings	• IP67
	• NEMA 4X
Wind resistance	Up to 100 MPH sustained winds
	Up to 165 MPH wind gusts
Hazardous Safety Rating	Class 1, Zone 2 / Div 2 ( available Q4 CY2007)
Federal compliance	• FIPS 140 – 2 certifiable
Immunity	= 5 mJ for 6kV/3kA @ 8/20 ms waveform
	ANSI/IEEE C62.41
	<ul> <li>EN61000-4-5 Level 4 AC Surge Immunity</li> </ul>
	<ul> <li>EN61000-4-4 Level 4 Electrical Fast Transient Burst Immunity</li> </ul>
	<ul> <li>EN61000-4-3 Level 4 EMC Field Immunity</li> </ul>
	EN61000-4-2 Level 4 ESD Immunity
	EN60950 Overvoltage Category IV
Power options	• 90 - 480 VAC, 47–63 Hz
	<ul> <li>Power over Ethernet: 48 VDC, +/-10 percent</li> </ul>
	• 12 VDC
	• 40–90 VAC quasi square wave; Power over Cable (PoC)
Warranty	90 days
Wi-Fi certification	Wiffi
	CERTIFIED

# **Ordering Information**

To place an order, visit the Cisco Ordering Website at: http://www.cisco.com/en/US/ordering/index.shtml

For detail parts lists and order information, please review the ordering guide at: <u>http://www.cisco.com/en/US/products/hw/wireless/index.html</u>

The Cisco Aironet 1520 Series part numbers distinguish the regulatory domains for which the access points are designed. Customers are responsible for verifying approval for use in their individual countries. To verify approval and to identify the regulatory domain that corresponds to a particular country, please visit: <u>http://www.cisco.com/go/aironet/compliance</u>

Table 3 lists the part numbers available for the Cisco Aironet 1520 Series.

Part Numbe	r Description		
Table 3.	Part Numbers for the Cisco Aironet 1520 Series		

Part Number	Description	
AIR-LAP1522AG-A-K9	Cisco Aironet 1522AG Lightweight Outdoor Mesh Access Point, Dual-Radio, FCC configuration	
AIR-LAP1522AG-N-K9	Cisco Aironet 1522AG Lightweight Outdoor Mesh Access Point, Dual-Radio, North America (excluding FCC)	
AIR-LAP1522PC-A-K9	Cisco Aironet 1522AG Lightweight Outdoor Mesh Access Point, Dual-Radio, FCC configuration, Power over Cable	
AIR-LAP1522PC-N-K9	Cisco Aironet 1522AG Lightweight Outdoor Mesh Access Point, Dual Radio, non-FCC configuration, Power over Cable	

# Antennas

The Cisco Aironet 1520 Series provides N-type connectors for the 2.4-GHz and 5-GHz antennas.

It is certified for use with antenna types up to the gains listed in Table 4.

Part Number	Product Name	
2.4-GHz Antenna		
AIR-ANT2450V-N =	2.4-GHz, 5.5-dBi Omnidirectional Antenna with N Connector	
AIR-ANT2480V-N =	2.4-GHz, 8.0-dBi Omnidirectional Antenna with N Connector	
4.9 / 5-GHz Antenna		
AIR-ANT5180V-N =	4.9 to 5.8-GHz, 8.0-dBi Omnidirectional Antenna with N Connector	
AIR-ANT5114P-N =	4.9 to 5.8-GHz, 14.0-dBi Patch with N Connector	
AIR-ANT5117S-N =	4.9 to 5.8-GHz, 17.0-dBi 90 degree sector with N Connector	
AIR-ANT58G10SSA-N =	5.8-GHz, 9.5-dBi Sector Antenna with N Connector	

## Table 4. Antennas for Cisco Aironet 1520 Series

# **Configurable Options**

Cisco Aironet 1520 Series provides internal backup power and a cable modem interface. Table 5 shows the part numbers for the battery and cable modem.

Table 5.	Cisco Aironet 1520 Series Battery and Cable Modern	n
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Part Number	Product Name
AIR-1520-BATT-6AH	Cisco Aironet 1520 Series Battery, 6 Amp Hour
AIR-1520-BATT-6AH=	Cisco Aironet 1520 Series Battery, 6 Amp Hour
AIR-1520-BATT-12AH	Cisco Aironet 1520 Series Battery, 12 Amp Hour
AIR-1520-BATT-12AH=	Cisco Aironet 1520 Series Battery, 12 Amp Hour
AIR-1520-CM-D2	Cisco Aironet 1520 Series Cable Modem, DOCSIS 2.0
AIR-1520-CM-D2=	Cisco Aironet 1520 Series Cable Modem, DOCSIS 2.0

# **Accessory Options**

Table 6 shows the accessory options that are available for the Cisco Aironet 1520 Series.

 Table 6.
 Cisco Aironet 1520 Series Power Supply Options and Part Numbers

Part Number	Product Name
GLC-FE-100BX-URGD=	100BASE-BX10-U Rugged SFP
AIR-1520-FIB-REEL=	Cisco Aironet 1520 Series Take-up Reel for Fiber Cable
AIR-1520-CAB-PWR=	Cisco Aironet 1520 Series Cable Power Module and Power Supply
AIR-ACCPMK1520=	Cisco Aironet 1520 Series Pole Mount Kit
AIR-ACCSMK1520=	Cisco Aironet 1520 Series Strand Mount Kit
AIR-BAND-INST-TL=	Cisco Aironet 1520 Series Band Installation Tool for the Pole Mount Kit
AIR-PWR-ST-LT-R3P=	Cisco Aironet 1520 Series Street Light Power Tap
AIR-CORD-R3P-50NA=	Cisco Aironet 1520 Series AC Power Cord, 50 ft. N. Amer Plug
AIR-PWRINJ1520-2=	Cisco Aironet 1520 Series Power Injector
AIR-1520-FIPSKIT=	Cisco Aironet 1520 Series FIPS Kit

## Service and Support

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For more information about Cisco Aironet 1520 Series Lightweight Outdoor Mesh Access Points, contact your local account representative or visit: <u>http://www.cisco.com/go/outdoorwireless</u>



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