

CISCO AIRONET POWER INJECTOR

Cisco Aironet® Power Injector products increase the deployment flexibility of Cisco Aironet wireless access points and bridges by providing an alternative powering option to local power, inline power-capable multiport switches, and multiport power patch panels.

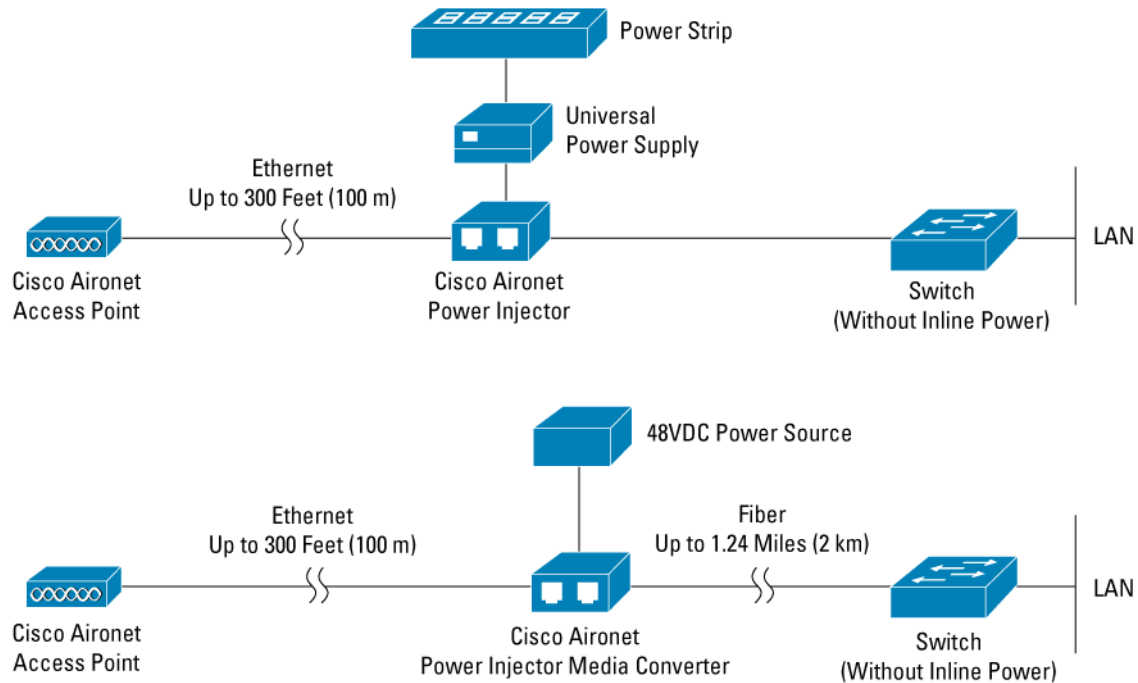


The power injector for Cisco Aironet 1100 and 1200 series access points (AIR-PWRINJ3) works with the power supply provided with the access point.

The Cisco Aironet Power Injector Media Converter (AIR-PWRINJ-FIB) converts fiber media to Category 5 media and combines the resulting data signal with power for delivery to the access point or bridge. The power injector media converter accepts 48 VDC power from either the barrel connector of the local power supply or an alternative 48 VDC power source. When powered by an alternate 48 VDC power source connected using the provided power supply pigtail, the Power Injector Media Converter is UL2043 certified and suitable for installation in environmental air spaces. The local power supply is provided with the Cisco Aironet 1100, 1130AG, 1200, 1230AG and 1240AG series access points.

Figure 1 illustrates possible deployment scenarios for the Power Injector and Power Injector Media Converter.

Figure 1. The Cisco Aironet Power Injectors Provide Inline Power to Cisco Aironet Access Points and Bridges



The power injectors provide up to 15 watts (depending on the Cisco power supply model) over the unused wire pairs of a Category 5 Ethernet cable, supplying enough power to provide for up to a 100-meter cable run.

PRODUCT SPECIFICATIONS

Table 1. Specifications of Cisco Aironet Power Injector

Description	Cisco Aironet Power Injector Media Converter for 1100, 1130AG, 1200, 1230AG and 1240AG Series	Cisco Aironet Power Injector for 1100, 1130AG, 1200, 1230AG and 1240AG Series
Part Number	AIR-PWRINJ-FIB	AIR-PWRINJ3
LAN Connection	<ul style="list-style-type: none"> Max Fiber cable length: 2 km Type: MT-RJ (multimode fiber) Label: 100BASE-FX To Network Speed: 100 Mbps Duplex: Full 	<ul style="list-style-type: none"> Max Cat 5 cable length: 100 m from switch to device Type: RJ-45 Label: 10/100BASE-TX To Network
Device Connection	<ul style="list-style-type: none"> Max Cat 5 cable length: 100 m Type: RJ-45 Label: 100BASE-TX To Device Speed: 100 Mbps Duplex: Full Auto MDI-X 	<ul style="list-style-type: none"> Max Cat 5 cable length: 100 m from switch to device Type: RJ-45 Label: 10/100BASE-TX To Device

Description	Cisco Aironet Power Injector Media Converter for 1100, 1130AG, 1200, 1230AG and 1240AG Series	Cisco Aironet Power Injector for 1100, 1130AG, 1200, 1230AG and 1240AG Series
LEDs	<ul style="list-style-type: none"> • 2 - Power Status • Uplink Connectivity 	<ul style="list-style-type: none"> • 2 - Power Status • Device Connectivity
Interlockable	Yes	Yes
Wired Pairs Used	Injects power into two unused pairs in the Category 5 cable: 4 and 5 (negative) and 7 and 8 (positive)	Injects power into two unused pairs in the Category 5 cable: 4 and 5 (negative) and 7 and 8 (positive)
Electrical	<ul style="list-style-type: none"> • Input voltage (supplied by external power supply) 48VDC \pm 10%, 18 watts • Output voltage: 48 VDC 	<ul style="list-style-type: none"> • Input voltage (supplied by external power supply) 48VDC \pm 10%, 18 watts • Output voltage: 48 VDC
	<ul style="list-style-type: none"> • Input current: .380A • Output current: .320A 	<ul style="list-style-type: none"> • Input current: .380A • Output current: .320A
Power Supply Requirements	Cisco Aironet power supply or alternative DC power supply,* 48 VDC \pm 5%, 18 watts	Cisco Aironet power supply, 48 VDC \pm 5%, 18 watts
Dimensions	5.49 x 2.14 x 1.36 in. (13.93 x 5.43 x 3.45 cm)	5.49 x 2.14 x 1.36 in. (13.93 x 5.43 x 3.45 cm)
Weight	4 oz.	4 oz.
Environmental	<ul style="list-style-type: none"> • 32° to 104° F (0° to 40° C) • 10-90% humidity (noncondensing) • UL 2043 certified for environmental air space installations when using supplied power supply pigtail 	<ul style="list-style-type: none"> • 32° to 113° F (0° to 45° C) • 10-90% humidity (noncondensing)

* Note that when using the provided power supply pigtail, connect it to the power source in accordance with local and national codes such as the National Electrical Code NFPA70, the Canadian Electrical Code, Part 1, C22, or IEC 364, Part 1 through 7.

ORDERING GUIDE

For the Cisco Aironet 1100, 1130AG, 1200, 1230AG and 1240AG Series Access Points, the Cisco Aironet Power Injector (part number AIR-PWRINJ3) can be configured to your order. Alternatively, for all Cisco Aironet access points and bridges, the appropriate Cisco Aironet power injector, including the Cisco Aironet Power Injector Media Converter (part number AIR-PWRINJ-FIB) can be ordered separately as a spare part.

Identify your access point or bridge and select the power injector and power supply from Table 2.

Table 2. Cisco Aironet Power Injector and Supply Options*

Product	Supported Power Injector	External Power Supply
Cisco Aironet 1100, 1130AG, 1200, 1230AG and 1240AG Series Access Points	AIR-PWRINJ3=	AIR-PWR-A=
	AIR-PWRINJ-FIB=	AIR-PWR-A=, or external 48 VDC \pm 5%

* Note that the Cisco Aironet 1400 Series Wireless Bridge is supplied with the Power Injector LR, which is also available as a spare part (part number AIR-PWRINJ-BLR1=). The Power Injector LR only supports the 1400 Series Bridge. Please see the Cisco Aironet 1400 Series Wireless Bridge data sheet for more information on this power injector.

**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

Copyright © 2006 Cisco Systems, Inc. All rights reserved. CCSP, CCVP, the Cisco Square Bridge logo, Follow Me Browsing, and StackWise are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn, and iQuick Study are service marks of Cisco Systems, Inc.; and Access Registrar, Aironet, BPX, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Fast Step, FormShare, GigaDrive, GigaStack, HomeLink, Internet Quotient, IOS, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, LightStream, Linksys, MeetingPlace, MGX, the Networkers logo, Networking Academy, Network Registrar, Packet, PIX, Post-Routing, Pre-Routing, ProConnect, RateMUX, ScriptShare, SlideCast, SMARTnet, The Fastest Way to Increase Your Internet Quotient, and TransPath 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. (0601R)

