

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.

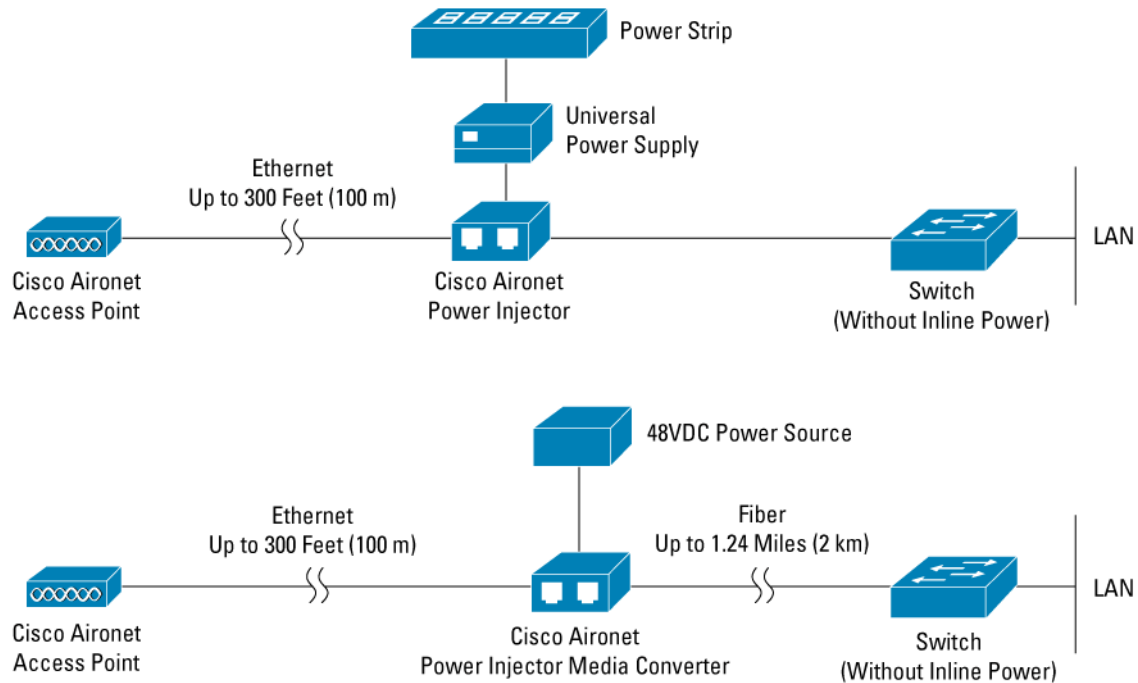


The power injector for Cisco Aironet 1100 and 1200 series access points (AIR-PWRINJ3) works with the power supply provided with the access point.

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.

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