CISCO AIRONET 1300 SERIES OUTDOOR ACCESS POINT/BRIDGE POWER INJECTOR

PRODUCT OVERVIEW

The Cisco Aironet 1300 Series Outdoor Access Point/Bridge Power Injector, as seen in Figure 1, converts the standard 10/100 BaseT Ethernet interface that is suitable for weather protected areas to a dual F-Type connector interface for coax cables that are more suitable for harsh outdoor environments. The Power Injector also provides power to the outdoor unit over the same cables with a power discover feature and surge protection. To support longer cable runs from your wireless network switch or router, the Power Injector enables total cable runs up to 200 meters (Category 5 Cable + Coax). The Cisco Aironet 1300 Series Outdoor Access Point/Bridge ships with the Power Injector LR2 and an AC power supply.

Figure 1
Power Injector AIR-PWRINJ-BLR2/AIRPWRINJ-BLR2T

The optional Power Injector LR2T takes power from any 12-40 VDC source, not supplied by Cisco. Typically, the DC source is vehicle or solar power source connected as shown in Figure 3. The Power Injector provides for installation flexibility when an AC power source is not available.

Figure 2
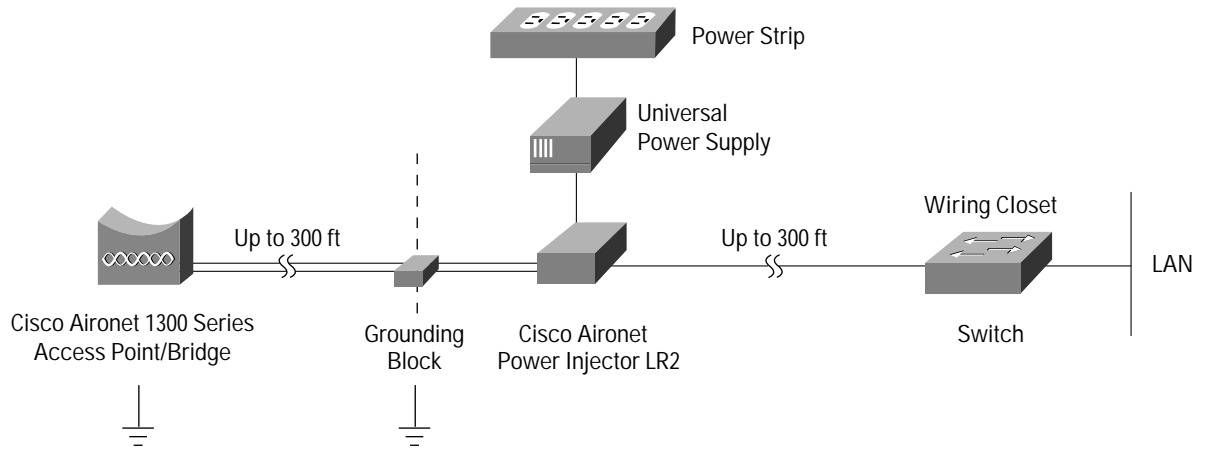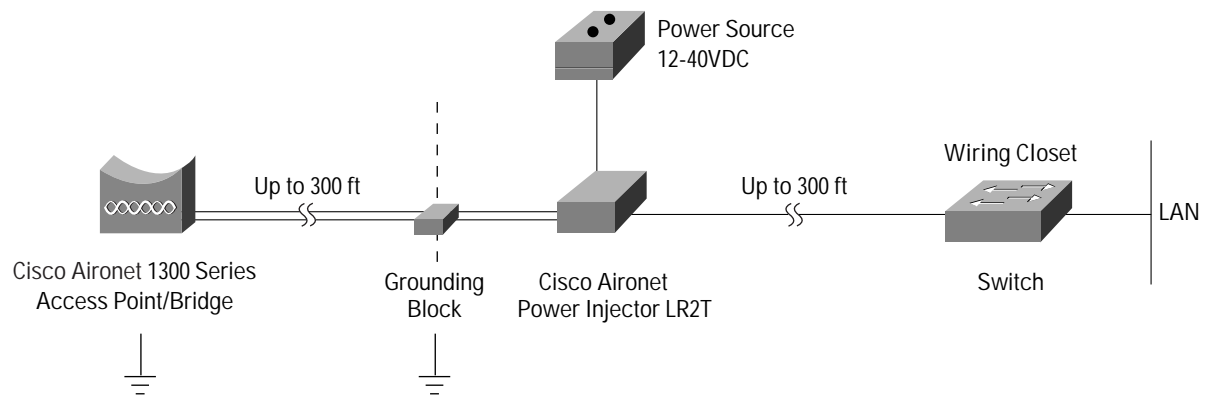Network Diagram for Power Injector AIR-PWRINJ-BLR2

Figure 3
Network Diagram for Optional Power Injector AIR-PWRINJ-BLR2T

PRODUCT SPECIFICATIONS

Table 1

Power Injector–LR2	The Power Injector LR2 converts the standard 10/100 BaseT Ethernet category 5 RJ-45 interface that is suitable for weather-protected areas to a dual F-Type connector interface for dual coaxial cables that are more suitable for harsh outdoor environments. While providing a 100baseT interface to the Cisco Aironet 1300 Series, the Power Injector LR2 also provides power to the unit over the same cables with a power discovery feature that protects other appliances from damage should they accidentally be connected. As an added benefit to the installer, Auto MDIX is built in, allowing the dual cables to be swapped and while maintaining the same functionality. To support longer cable runs from your infrastructure network switch or router, the Power Injector LR is designed to accommodate up to a 100 meter coaxial cable run plus 100 meters of indoor cat5 cable—enabling total cable runs up to 200 meters. Lightning and surge protection is also included at the F-Type connector interface to provide added protection to your network infrastructure devices. The LR2 Power injector requires a Cisco supplied 48V DC source.

Table 1 (Continued)

Power Injector–LR2T	The Power Injector LR2T supports all the functionality of LR2. It is designed for use in transportation applications and operates with an input voltage range of +12 to +40VDC. The DC source is provided by the user. The LR2T can therefore be vehicle or solar powered.
Power Supply	Cisco supplied +48 VDC supply for AIR-PWRINJ-BLR2= User supplied +12 to +40 VDC source for AIR-PWRINJ_BLR2T=. Requires an external load-dump-module.

Network Management

Table 2

	AIR-PWRINJ-BLR2 AIR-PWRINJ-BLR2T
Status LEDs	One LED: • Power Status
Configuration and Management	The power injector does not require configuration or management.

Physical

Table 3

	AIR-PWRINJ-BLR2	AIR-PWRINJ-BLR2T
Dimensions	4.62 in x 4.76 in x 1.07 in (11.73cm x 12.09cm x 2.71cm)	4.62 in x 4.76 in x 1.07 in (11.73cm x 12.09cm x 2.71cm)
Weight	2 lbs. (1 kg)	2 lbs. (1 kg)
Operational Temperature	-30º to +55ºC (-22º to 131ºF)	-30º to +55ºC (-22º to 131ºF)
Storage Temperature	-40º to +85ºC (-40º to +185ºF)	-40º to +85ºC (-40º to +185ºF)
Operational Altitude	3047 m (10,000 ft.)	4206 m (13,800 ft.)
Storage Altitude	4877 m (16,000 ft.)	4877 m (16,000 ft.)
Humidity	0 to 90% @ 38ºC (non-condensing)	0 to 90% @ 38ºC (non-condensing)
Vibration	SAEJ1455 section 4.9	SAEJ1455 section 4.9
Enclosure	UL2083; Metal case	UL2083; Metal case

Power

Table 4

	AIR-PWRINJ-BLR2	AIR-PWRINJ-BLR2T
AC Power	100 to 240 VAC, +/-10% (Cisco supplied power supply)	Not required
DC Power	+48 VDC, +/- 10% 2 Watts	+12 to +40 VDC, +/-10% 2 Watts

ORDERING INFORMATION

To place an order, visit the Cisco Ordering Home Page. For assistance in determining the correct wireless access point/bridge to order, contact your local account representative.

Table 5

Product Name	Product Part Number
Aironet Power Injector—LR2	AIR-PWRINJ-BLR2=
Aironet Power Injector—LR2T	AIR-PWRINJ-BLR2T=
Power Supply In:100-240VAC Out:48VDC	AIR-PWR-A=

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FOR MORE INFORMATION

For more information about the Cisco Aironet 1300 Series Outdoor Access Point/Bridge, contact your local account representative.

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