

# Cisco One-Year Limited Hardware Warranty Terms

There are special terms applicable to your hardware warranty as well as services you may use during the warranty period. Your formal Warranty Statement, including the warranty applicable to Cisco software, is available on Cisco.com. Follow these steps to access and download the *Cisco Information Packet* and your warranty document from Cisco.com.

1. Launch your browser and go to the following URL:

[http://www.cisco.com/en/US/products/prod\\_warranties\\_listing.html](http://www.cisco.com/en/US/products/prod_warranties_listing.html)

The Warranties and License Agreement page appears.

2. To view the *Cisco Information Packet*, perform these steps:
  - a. Click the **Information Packet Number** field and make sure that the part number 78-5235-02C0 is highlighted.
  - b. Select the language to view the document.
  - c. Click **Go**. The Information Packet page appears.
  - d. From this page you can review the document online or click the **PDF** icon to download and print the document in Adobe Portable Data File (PDF) format.

**Note**

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You must have Adobe Acrobat Reader in order to view and print a PDF file. If you do not have the viewer, click the **Get Acrobat Reader** icon at the bottom of the page to go to the Adobe.com website and download the reader.

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3. To view translated and/or localized warranty information about your product, follow these steps:
  - a. Enter the following part number in the **Warranty Document Number** field:  
78-10747-01C0
  - b. Select the language to view the document.
  - c. Click **Go**. The Cisco Warranty page appears.

From this page you can review the document online or click the **PDF** icon to download and print the document in Adobe Portable Data File (PDF) format.

You may also contact our Support and Documentation website for assistance at:

<http://www.cisco.com/cisco/web/support/index.html>

## Duration of Hardware Warranty

One (1) Year

## **Replacement, Repair or Refund Procedure for Hardware**

Cisco or its service center will use commercially reasonable efforts to ship a replacement part within ten (10) working days after receipt of the RMA request. Actual delivery times may vary depending on Customer location.

Cisco reserves the right to refund the purchase price as its exclusive warranty remedy.

## **To Receive a Return Materials Authorization (RMA) Number**

Please contact the party from whom you purchased the product. If you purchased the product directly from Cisco, contact your Cisco Sales and Service Representative.

Complete the information below and keep for ready reference.

|                                  |  |
|----------------------------------|--|
| Product purchased from:          |  |
| Their telephone number:          |  |
| Product Model and Serial number: |  |
| Maintenance Contract number:     |  |

# Preface

Cisco Aironet Power Injectors provide inline power for Cisco Aironet 1100 and 1200 series access points and 350 series access points and bridges. Three models are available:

- AIR-PWRINJ—for 350 Series access points and bridges.
- AIR-PWRINJ2—for 1100 and 1200 Series access points.
- AIR-PSINJSYS1200—for 1200 Series access points.



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**Note**

The 1100 and 1200 series power injectors can be used with 350 series devices, but due to the higher current demands of the 1100 and 1200 series, the 350 series power injector cannot be used with 1100 and 1200 series devices.

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A straight-through, Category 5 Ethernet cable connects the power injector to a 10/100 Ethernet switch, hub, or network, and another straight-through cable carries power and data to the access point's or bridge's Ethernet port. The power injector's power supply connects to a wall outlet or power strip to supply the power.



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**Caution**

Power injectors are *not* intended for use in extremely high or low temperatures or in environmental air spaces, such as above suspended ceilings.

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## Unpacking the Power Injector

The following items are shipped with your power injector:

- Straight-through, Category 5 Ethernet cable
- Warning labels
- This installation guide
- Electrical tie-wraps, wall anchor, and screw
- Universal power supply and power cord (AIR-PSINJSYS1200 and AIR-PWRINJ only)

If any item is missing or damaged, contact your Cisco representative or reseller.

## Additional Requirements

You also need a straight-through, Category 5 Ethernet cable long enough to connect the power injector to the network or to the access point or bridge.

If you install the access point or bridge in an environmental air space, such as above a suspended ceiling, check national and local safety codes to make sure that the Ethernet cable you connect to the unit meets applicable standards.

If you install the power injector near the access point or bridge, use the supplied Ethernet cable to connect the power injector to the access point or bridge. Use a longer Ethernet cable to connect the power injector to the switch, hub, or network.

If you install the power injector near the switch, hub, or network, use the supplied Ethernet cable to connect the power injector to the network. Use a longer Ethernet cable to connect the power injector to the access point or bridge.

## Installing a Power Injector



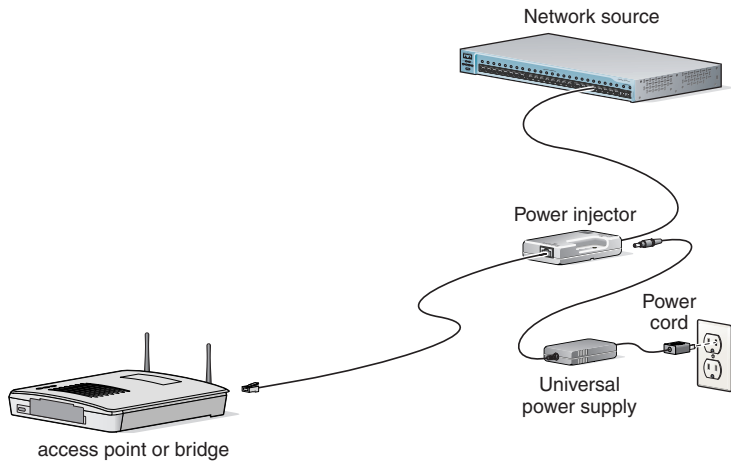
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**Note**

The maximum distance that is supported for in-line power is up to 328 ft (100 m), including the 6.5 ft (2 m) cable provided with the power injector.

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The following illustration shows a typical installation.



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**Note**

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The cord from the universal power supply to the power injector is permanently attached on the AIR-PSINJSYS1200 and AIR-PWRINJ power injector models.

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Follow these steps to install the power injector:

1. Plug a straight-through, Category 5 Ethernet cable into the port on the power injector labeled *To AP/Bridge*.
2. Plug the other end of the Ethernet cable into the Ethernet Port on the access point or bridge.
3. Plug a straight-through, Category 5 Ethernet cable into the port on the power injector labeled *To Network*.
4. Plug the other end of the Ethernet cable into your 10/100 Ethernet switch, hub, or network.
5. Attach the power cord to the universal power supply and connect it to a suitable power source.
6. For the power injector for 1100 and 1200 series access points (power injector model AIR-PWRINJ2), connect the power supply male connector to the female connector on the power injector.

When power is applied, the light-emitting diode (LED) on top of the power injector glows steady green or amber, depending on whether it is connected to an inline-power-capable device, such as an access point or a bridge. When connected, the power injector LED glows steady green and the access point or bridge LEDs flash a start-up sequence.

If the power injector is not connected to a device capable of receiving inline power, or if it is connected incorrectly, the LED glows steady amber.



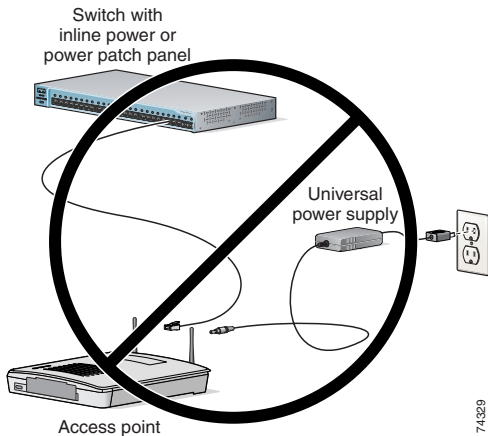


## Note

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You cannot provide redundant power to an access point with both DC power to its power port and inline power from a patch panel or powered switch to the access point's Ethernet port. If you apply power to the access point from both sources, the switch or power patch panel might shut down the port to which the access point is connected. The following illustration shows the power configuration that can shut down the port on the patch panel or powered switch.

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7. Secure the power injector using the supplied tie wraps, wall anchor, and screw. The tie-wrap can be inserted through the slot on the bottom of the power injector.

# Specifications

This table lists specifications for the power injectors:

| Category   | Specification   |
|------------|---|
| Electrical | Input voltage: 48 VDC (supplied by the power supply)<br>Output voltage: 48 VDC<br>AIRPWRINJ (350 series devices):<br>Input current: 0.200A<br>Output current: 0.125A<br>AIRPWRINJ2 (1100/1200 series devices):<br>Input current: 0.380A<br>Output current: 0.350A<br>AIR-PSINJSYS1200 (1200 series devices):<br>Input current: 0.380A<br>Output current: 0.350A |
| Connectors | Two RJ-45 jacks for 10/100 Ethernet connections, one labeled <i>To AP/Bridge</i> and one labeled <i>To Network</i> .  |

| <b>Category</b>       | <b>Specification</b>  |
|-----------------------|---|
| Wire pairs used       | Injects power into two unused pairs in the Category 5 cable: 4 and 5 (negative) and 7 and 8 (positive). |
| Dimensions            | 1 in. (2.54 cm) high x 1.85 in. (4.69 cm) wide x 3.3 in. (3.38 cm) deep                                 |
| Weight                | Less than 1 lb (0.45 kg)  |
| Operating temperature | 32 to 104°F (0 to 40°C)   |

## Regulatory Information

The following information is for FCC compliance of Class B devices:

The equipment described in this manual generates and may radiate radio-frequency energy. If it is not installed in accordance with Cisco's installation instructions, it may cause interference with radio and television reception. This equipment has been tested and found to comply with the limits for a Class B digital device in accordance with the specifications in part 15 of the FCC rules. These specifications are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation.

Modifying the equipment without Cisco's written authorization may result in the equipment no longer complying with FCC requirements for Class A or Class B digital devices. In that event, your right to use the equipment may be limited by FCC regulations, and you may be required to correct any interference to radio or television communications at your own expense.

You can determine whether your equipment is causing interference by turning it off. If the interference stops, it was probably caused by the Cisco equipment or one of its peripheral devices. If the equipment causes interference to radio or television reception, try to correct the interference by using one or more of the following measures:

- Turn the television or radio antenna until the interference stops.
- Move the equipment to one side or the other of the television or radio.
- Move the equipment farther away from the television or radio.
- Plug the equipment into an outlet that is on a different circuit from the television or radio. (That is, make certain the equipment and the television or radio are on circuits controlled by different circuit breakers or fuses.)

Modifications to this product not authorized by Cisco Systems, Inc. could void the FCC approval and negate your authority to operate the product.

# Applicable Standards

This device has been tested and found to comply with the following standards:

- FCC Part 15.107 and 15.109 Class B
- FCC Part 15.247
- ICES-003 Class B
- AS/NZS 3548 Class B
- RSS-139-1, RSS-210
- VCCI Class B
- EN 300.328
- EN 301.489-1 and 17
- EN 55022
- EN 55024