

Cisco Aironet 1250 Series Access Point

Power Options

Q. What are the powering options for the Cisco Aironet 1250 Series?

A. The Cisco Aironet 1250 Series Access Point may be powered using any of the following options:

- Cisco Catalyst 10 Gigabit Ethernet Enhanced PoE switch
- 802.3af PoE switch
- Cisco Aironet Power Injector (AIR-PWRINJ4)
- Power supply (AIR-PWR-SPLY1).

Q. What is the recommended powering option that provides maximum performance for the Cisco Aironet 1250 Series?

A. Cisco Enhanced PoE support is available on the [Catalyst 3750-E Series Switches](#) and [Catalyst 3560-E Series Switches](#) and provides the maximum functionality for 802.11n deployments with the lowest total cost of ownership. Support for enhanced PoE in additional switches in the Catalyst Family will be available soon. For more details please read the Cisco Enhanced Power over Ethernet (PoE) Q&A:

http://www.cisco.com/en/US/prod/collateral/switches/ps5718/ps5023/QA_Enhanced_Power_over_Ethernet.html

Q. Can the Cisco Aironet 1250 Series be powered using 802.3af? If so, how many radios should be deployed?

Customers using standard 802.3af switches may choose to deploy Cisco Aironet 1250 Series Access Points with a single 802.11n radio, or with dual 802.11n radios. Cisco recommends a single radio deployment for optimum performance which results in approximately 300 Mbps Maximum PHY data-rate. For single 802.11n radio deployments customers may choose to order a blank radio module which provides zero functionality, and is used to fill the empty slot of the dual radio access point. The blank radio module is purely cosmetic and is not required for the access point to function. The part number for the blank module is: SKU: AIR-RM1250-BLANK=

Customers using 802.3af switches that choose to deploy dual 802.11n radios will have limited functionality for 802.11n and can expect maximum PHY data-rates of 157.5 Mbps per radio.

Q. Can the Cisco Aironet 1250 Series be powered using a 10/100 Mb Ethernet port?

A. Yes but performance will be limited by the switch port. Cisco recommends the Catalyst 3750-E or 3560-E Series Switches for optimum performance.

Q. Can the Cisco Aironet 1250 Series be powered using both the DC input (that is, external AC power supply) and PoE? If both are used, do they load share? Or is it one or the other?

A. The Cisco Aironet 1250 Series Access Point can be powered by either PoE or the DC input. If the Cisco Aironet 1250 Series Access Point powers up over PoE (using either an 802.3af or a high-power injector), then that is the power source. If the Cisco Aironet 1250 Series is plugged into a DC power source, the access point resets and the unit is run from the DC jack and does not go through 802.3af discovery so the Ethernet port will not have power.

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- Q. Will third-party Power over Ethernet mid-span devices be able to consistently power the Cisco Aironet 1250 Series?**
- A. No interoperability testing has been done with third-party Power over Ethernet mid-span devices.
- Q. Will the PWR-INJ4 (power injector) provide power to a Cisco Aironet 1240 Series Access Point?**
- A. Yes, the PWR-INJ4 power injector will support the Cisco Aironet 1240 Series; however Cisco recommends the PWR-INJ3 which is a less expensive powering option and provides the same functionality as the PWR-INJ4.
- Q. Does the Cisco Aironet 1250 Series support local power (for customers that do not wish to use a PoE device)?**
- A. Yes the Cisco Aironet 1250 Series includes a local power jack which offers the same performance and functionality as the Enhanced PoE powering option.
- Q. Where can I find more information on Cisco Catalyst commands for providing enhanced PoE?**
- A. Each Catalyst switch has a command reference guide which provides the exact CLI interface. The Catalyst 3750-E and 3560-E Switch Command Reference is located here:
http://www.cisco.com/en/US/docs/switches/lan/catalyst3750e_3560e/software/release/12.2_44se/command/reference/3750ecr.pdf