Cisco Systems | Technology Developer Partner

PowerDsine™

Cisco Technology Developer Partner Catalog

PowerDsine's Power over Ethernet (PoE) Midspans are independent power injectors that are installed in the wiring closet next to the existing Ethernet switch. They provide power to IP phones, wireless LAN access points, network cameras, and other IP devices.

PowerDsine Solution

PowerDsine's IEEE 802.3af-standard-compliant PoE 6000, 6500, 8000, and 3000 Midspan families integrate the power source into the existing data infrastructure, removing the need for separate AC power at all locations, thus saving costs by upgrading the network to PoE without replacing the existing switch.

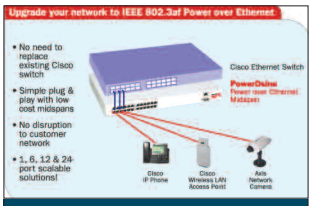

Figure 1: Typical Network architecture with PoE Midspan

Power over Ethernet (PoE) Midspans integrate the power source into the same cable infrastructure as the IP data, removing the need to have AC power available at all locations. PowerDsine's PoE Midspan is an independent power injector that provides PoE capabilities to existing Ethernet switches, eliminating the need to replace the existing infrastructure. Figure 1.

As a plug-and-play device, the PowerDsine PoE Midspan installation requires no setup, configuration, or downtime. PowerDsine PoE Midspans provide power to IEEE802.3af-standard devices and prestandard Cisco devices.

- Wireless LAN access points and IP security cameras can be installed at the site of the best Radio Frequency (RF) coverage and proper angles. A central universal power supply (UPS) can be deployed to support all of the remote access points in case of power failures, enabling faster implementations, as no AC contractor is required for the installation in hard-to-reach places. With a Midspan, companies can benefit from having the power source and backup UPS centralized in the computer room.
- IP telephony systems require power on every IP phone. To guarantee a reliable phone system, the power needs to be backed up. PoE eliminates all of the extra AC sockets and provides a single UPS to support thousands of distributed IP phones.

The main benefits of the PowerDsine PoE Midspan are:

- No need to replace or upgrade an existing switch for standards-based PoE; a PowerDsine PoE Midspan can be installed without bringing the network down.
- Ease of implementation allows you to save money and time.
- Increased reliability—by connecting a UPS to a PowerDsine PoE Midspan in the communications room, the entire network, including the remotely located resources, is capable of continuous operation during a power cut.
- Eliminates the cost of scheduling expensive electricians for AC outlet extensions. The electrician's budget can be spent on PowerDsine PoE Midspans and UPSs, improving margin opportunities.

PowerDsine 6024/6012/6006

PowerDsine's flagship IEEE 802.3af-standard-compliant PoE 6000 Midspan family provides power and data over standard Ethernet cabling to 24, 12, and 6 remote terminals simultaneously. The 6000 series Midspan injectors are 19-inch

rack-mountable, and offer advanced remote power management capabilities, including Web browsing and Simple Network Management Protocol (SNMP) Management Information Base (MIB) support.

PowerDsine 6548

PowerDsine's 6548 PoE 48-port Midspan provides safe power over standard Ethernet cabling to 48 terminals simultaneously, without replacing the existing Ethernet switches. The PowerDsine 6548 Midspan is the optimal solution for powering IP phones in large installations, offering a revolutionary approach that provides twice the port density in a 19-inch rack-mountable, 1U height device, for highly cost-effective price per port.

PowerDsine 3012/3006/3001

PowerDsine's PoE 3000 Midspan family offers a compact, cost-effective, fully IEEE 802.3af-compliant solution for remote powering of wireless LAN access points, as well as other low-port-density PoE installations. The 3000 family provides a compact, affordable, safe, and reliable power solution for small to medium-sized enterprises.

PowerDsine 6024G/6012G/6006G

PowerDsine's Gigabit Midspan family provides safe power over standard Ethernet cabling to both existing 10/100/1000BASE-T network devices and emerging Gigabit devices. The PowerDsine 6000G series Midspans are the market's first Midspans to provide power for Gigabit Ethernet devices such as IP phones, wireless LAN access points, and IP network video cameras in enterprise installations. These Midspans offer long-term investment protection by supporting existing 10/100BASE-T devices while ensuring support for future 1000BASE-T devices.

PowerDsine 8012/8006/8001

PowerDsine's 8000 High-Power Midspan family provides up to 39W power over standard Ethernet cabling to high-power consumption terminals as well as 802.3af-standard devices. The 8000 High-Power Midspan series eliminates the need for an external power supply and its associated AC/DC power cabling, while providing a safe and reliable means for powering high-power-consumption Ethernet devices such as Pan-Tilt-Zoom network cameras and multichannel wireless LAN access points.

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PowerDsine Midspans	Cisco WLAN Access Point	Cisco IP Phones
	Cisco Aironet 1000 Series Cisco Aironet 1100 Series Cisco Aironet 1200 Series Cisco Aironet 1300 Series Cisco Aironet 350 Series	Cisco 7902G Cisco 7905G Cisco 7910G Cisco 7912G Cisco 7940G Cisco 7941G Cisco 7941G-GE Cisco 7960G Cisco 7961G Cisco 7961G-GE Cisco 7970G Cisco 7971G-GE Cisco 7985G

Figure 2 Compatible Cisco and PowerDsine products

PowerDsine's Midspans power any IEEE 802.3af-standard devices, as well as most legacy powered devices.

The PowerDsine Compatible Products Program ensures that products developed byoriginal equipment manufacturers are compatible and capable of interoperating with PowerDsine technology (Table 1). An external splitter may be installed where an end terminal is not standard-compliant.

Cisco IP phone Model	Detection	Splitter
7902G	Pre-Standard	-
7905G	Pre-Standard	-
7910G	Pre-Standard	PD-PS-401/Cisco
7912G	Pre-Standard	-
7940G	Pre-Standard	PD-PS-401/Cisco
7941G	IEEE 802.3AF	-
7941G-GE	IEEE 802.3AF	-
7960G	Pre-Standard	PD-PS-401/Cisco
7961G	IEEE 802.3AF	-
7961G-GE	IEEE 802.3AF	-
7970G	IEEE 802.3AF	-
7971G-GE	IEEE 802.3AF	-
7985G	IEEE 802.3AF	-
Cisco wLAN access points	**Detection**	**Splitter**
Aironet 1000	IEEE 802.3AF	
Aironet 1100	Pre-Standard	
Aironet 1130	IEEE 802.3AF	
Aironet 1200	Pre-Standard	PD-PS-401/Cisco
Aironet 1300	N/A	PD-AS-601/18
Aironet 350	Pre-Standard	PD-PS-401/Cisco
Aironet 1240	IEEE 802.3AF	

Table 1 PowerDsine compatible Cisco wLAN Access Points and IP Phones

Cisco Compatible

Midspan and Splitters have tested compatible with Cisco Aironet 1100 and 1200 series access points. The Cisco Compatible logo signifies that PowerDsine's product has undergone interoperability testing by PowerDsine together with Cisco and a third-party test house based on testing criteria set by Cisco. PowerDsine is solely responsible for the support and warranty of its product. Cisco makes no warranties, express or implied, with respect to PowerDsine's product or its interoperation with the listed Cisco product(s) and disclaims any implied warranties of merchantability, fitness for a particular use or against infringement.

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