

PowerDsine 6500 Series

Managed, secure & highly reliable Power over Ethernet Midspan Family
PowerDsine 6524, 6512, 6506

PowerDsine 6500 series sets a new standard for highly secure, remotely-managed and safe-to-use Power over Ethernet Midspans. It provides power over standard Ethernet cabling for up to 24 terminals without replacing the existing Ethernet switches.

The 6500 series comprises 24, 12 and 6-port models, making a wide range of flexible Power over Ethernet installations possible.

Power over Ethernet (PoE) technology enables IP telephones, wireless LAN access points, security network cameras and many other types of data terminals to receive power, along with data, over standard Ethernet cables, leaving network infrastructure completely unaltered. With PoE, data and power flow in parallel over the same LAN cable without mutual interference.

Using PoE, the deployment of WLAN access points and network cameras, typically installed close to ceilings, can be significantly accelerated since the presence of AC outlets near the devices is no longer a barrier.

IP telephony installations benefit from PoE as bulky AC bricks are discarded and power is delivered from a backed-up central unit, resulting in a higher level of reliability.

PoE Midspan resides between the Ethernet switch and the data terminal, delivering data and power from the Midspan to the terminal. It is a highly effective means for injecting power into the Ethernet cable.

Significant financial benefits can be achieved when the Midspan is installed instead of upgrading to a PoE-ready switch:

- Lower purchase costs: Midspan port costs less than a new PoE switch port
- Longer network life span: with the Midspan the life cycle of the existing switch is prolonged
- Lower installation costs: Midspan installation is simpler and involves almost zero network downtime.



PowerDsine 6500 series fully complies with the IEEE 802.3af standard, which defines PoE, providing a minimum of 15.4 Watts through each port.

With full support for SNMPv3, the 6500 series offers an advanced and highly secure network management, enabling control over the Midspan and the data terminals connected to it.

Features

- Safe & reliable Power over Ethernet solution
- The most cost-effective solution for existing infrastructures
- Remote SNMPv3 and Web management
- High level of network security
- Protects network infrastructure
- Scalable 24, 12 & 6-port models
- Standard-compliant



PowerDsine 6500

Power over Ethernet Midspans

Key Benefits

Simplicity

The 6500 Midspan is a plug-and-play product- once turned on, it initiates a negotiation process with all connected data terminals, then powers all valid powered devices detected. Users may opt to have the Midspan operate continuously or, alternatively, may use the Midspan's management facilities to control and monitor the device. For the greatest possible ease of use, no reconfiguration of the switch is ever required.

Scalability & Flexibility

The 6500 Series supports large installations using multiple 48 or 24-port units, in places where multi-user IP telephony systems are installed. 12 and 6-port models optimally suit smaller installations where WLAN access points and security cameras are involved.

The Midspan optimizes PoE port count since an existing switch can be used along with a Midspan that supports only the exact number of required PoE ports.

Powerful Management

PowerDsine's PowerView Pro application provides a Web-based network management system that supports SNMPv3. PowerView Pro is fully standard-compliant and may be managed by such common management platforms as HP OpenView, SNMPc and others. Supported management functions include switching on and off of specific ports, setting Midspan parameters and monitoring Midspan activity. For example, a remote access point can be reset in case of failure by issuing a simple command. Additionally, an alarm can be generated when this same access point fails to accept power from the Midspan.

Airtight Security

Powerful security mechanisms guard the Midspan from outside threats of any kind. MD5 authentication algorithm is invoked during link establishment, while DES privacy algorithm maintains continuous runtime operational safety.

Compatibility

The 6500 series enables interoperability with any 10/100 Mbit Ethernet switch and with virtually any type of powered device.

Standard Compliance

All 6500 series Midspans comply with the IEEE 802.3af standard, enabling full interoperability with common powered devices and ensuring the safety of non-PoE terminals (such as desktop/laptop

computers), even in the face of faulty power provision that could have resulted in electric damage.

Legacy Powered Device Support

6500 series Midspans may be used to power pre-standard PoE applications, such as Cisco legacy terminals and others. PowerDsine's Active Splitter component enables the support of pre-standard applications, where no accommodations for PoE power provision through RJ45 inlets have been made. A list of interoperable powered devices can be found in PowerDsine's Selection Guide.

Future-Proof Investment

Midspan deployment effectively extends the effective lifespan of your network equipment. 6500 series Midspans may be fully integrated with existing networks, saving the need to swap out non-PoE switches for ones with PoE capabilities.

Minimal Network Downtime

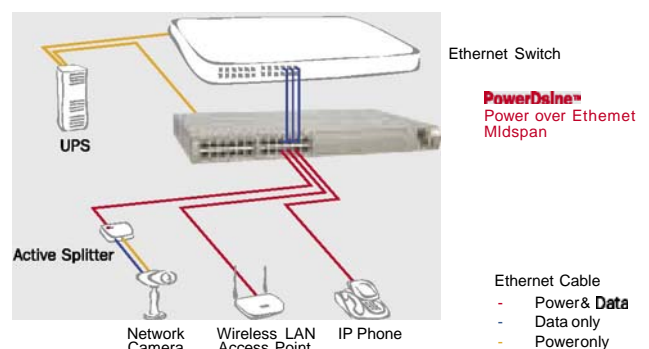
Midspan installation is designed to ensure that organizational productivity remains as high as possible, typically involving network downtime of no more than a few hours.

Centralized Power Distribution

The Midspan, backed by a central UPS (Uninterrupted Power Supply), provides **cost-effective** distribution of backed-up power and ensures uninterrupted network operation, even in cases of electrical power outages.

Cost Savings

Deploying 6500 series Midspans is far less costly than upgrading to a PoE switch, or buying a brand new one. Midspan installation is considerably easier than switch installation - driving costs lower.



PowerView Pro

PowerDsine's Secure Web-based Remote Management System



PowerView Capabilities

The PowerDsine PowerView Pro application runs on any standard PC, providing remote management of all Midspans deployed in the network (see Figure 1). Advanced security algorithms (MD5 for authentication and DES for privacy) ensure high system safety. A built-in web server enables remote network monitoring using any web browser, with integrated SNMPv3 MIB. Control and monitoring functions may be applied at both network and single-element levels:

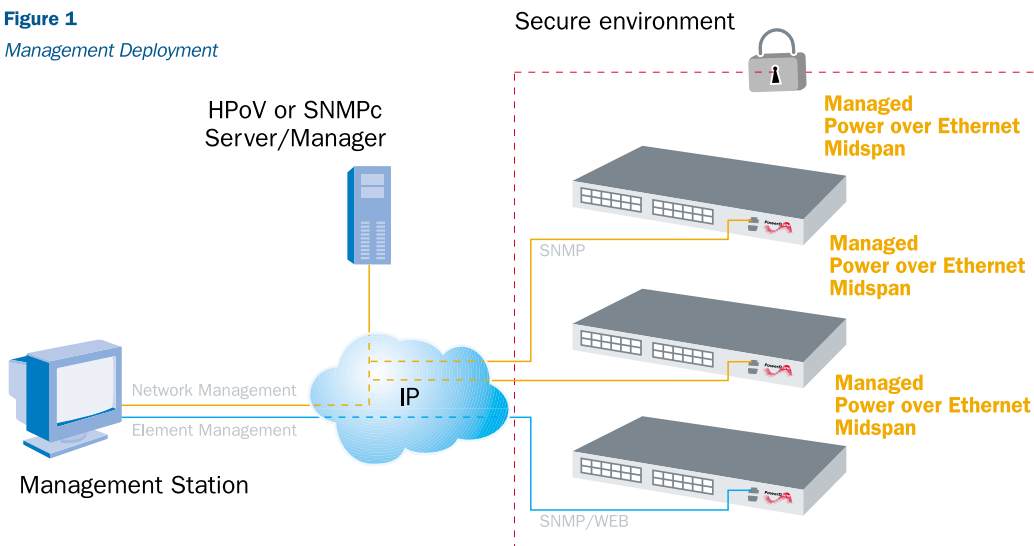
Network level - PowerView Pro can monitor and configure any number of Midspans. The system may be managed via MIB-based management platforms, such as HP OpenView or SNMPc.

Element level - Single element management is performed at both unit and single-port levels. Parameters that may be directly retrieved from Midspans include: product identification, active power source, product status and unit power consumption. Single-port level parameters include: maximum per-port power, port priority level, port status and the type of powered device connected to the port.

PowerView Features

- Real-time remote PoE monitoring and configuration via:
 - Secure Web management (SSL)
 - Secure SNMP (through SNMPv3)
 - Telnet (Terminal over Network)
- Graphical user interface with iconic representation of remote devices
- Status indicators and alarms
- Multi-manager capabilities
- Event and performance data logging
- System status display
- Runs on any Windows-based PC platform
- Plug-and-play - no software installation required prior to operation

Figure 1
Management Deployment



Specifications*

Connectors	PoE ports & management port: RJ-45, shielded, EIA 568A and 568B Console port: DB-9, Male	Dimensions	24,12,6 port: Height: 44 mm (1.75 in or 1U) Width: 438 mm (17.3 in) Depth: 272 mm (10.8 in) Weight: 4 kg (8.8 lbs);
Ethernet	10/100Base-T	Standards Supported	IEEE 802.3af (Power over Ethernet) RFC 3621 (Power over Ethernet MIB)
Electrical	Power Supply: 100-240 VAC; Input Current: 24,12,6-port: 4A@110V, 2A@220V; AC Frequency: 50/60 Hz Output Voltage: 24,12,6-port: 48VDC (on pins: 4/5 (+), 7/8 (-)) Power (per port): 15.4 W min. Total Available Power: 24 port: 400W 24,12 port: 200W 6 port: 100W	Safety	UL, cUL, GS Mark, EN 60950
Environmental	Operating Temp.: 0 to 40°C (32° to 104°F) Storage Temp.: -20° to 70°C (-4° to 158°F) Operating Humidity: 10 to 90%, non-condensing Storage Humidity: 5 to 95%, non-condensing Operating Alt.: -305 to 3,048 m, (-1000 to 10,000 ft) Thermal Rating: 24,12,6-port: 285 BTU/Hr (@ 240 VAC)	Emissions & Immunity	FCC Part 15 Class B EN55022 (CISPR 22) Class B EN55024 (CISPR 24) CE VCCI
Reliability	MTBF: 100,000 hours @ 25°C	Warranty	life-time warranty
Displays	AC Power LED indicator Per-Port LED indicator	Service	USA: Tel: 1-877-480-2323 UK: Tel: 0-800-085-8814 International: Tel: +972-9-7755123 E-Mail: customer.care@powerdsine.com
Management	SNMPv3 and Telnet Multiple agents accessible through single management entity Web-Management via PowerView Pro application	Contacts	
Security	MD5 authentication DES privacy algorithm		

* Information in this section applies to all modules in the 6500 series, unless otherwise stated.

Ordering Information

Part Number	Name	Description
PD-6506/AC/M-XX	PowerDsine 6506	6-port, 100W total power
PD-6512/AC/M-XX	PowerDsine 6512	12-port, 200W total power
PD-6524/AC/M-XX	PowerDsine 6524	24-port, 200W total power
PD-6524/AC/M/F-XX	PowerDsine 6524	24-port, 400W total power

XX denotes power cord type: US-North America, UK-Great Britain, EU-Europe, AU-Australia, JP-Japan

Accessories	Name	Description
PD-AS-601/YY	PowerDsine Active Splitter	Active Splitter for legacy application

YY denotes the splitter's output voltage (5, 12, 18 & 48 VDC)

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