8000 Midspan Family Specifications

Number of Ports	12/6/1
Data Rates	10/100 Mbps
High PoE Output	Powering on 4 pairs simultaneously Pin Assignment and Polarity: 4/5 (+), 7/8 (-) and 1/2 (-), 3/6 (+) 8006/8012: Output Voltage (typ.): 55.5Vdc Port Power (typ.): 39W (using Power management) Available Power: 200 W 8001: Output Voltage (typ.): 55.5Vdc Port Power (typ.): 52.5Vdc
Input Power Requirements	8006/8012: AC Input Voltage: 90 to 264 Vac AC Input Current: 4 A at 110 Vac, 2 A at 220 Vac AC Frequency: 47 to 63 Hz 8001: AC Input Voltage: 90 to 264 Vac
Dimensions	8006/8012: 1.75 x 17.0 x 11.9 in. (h * w * d) 4.4 x 43.8 x 30.2 cm (h * w * d) 8001: 1.75 X 4.17 X 5.5 in. (h * w * d) 4.4 X 10.6 X 14.0 cm (h * w * d)
Weight	8006/8012: 8.8 lbs (4 kg) 8001: 1.0 lbs (350 g)
Indicators	8006/8012: System Indicator: AC Power (Green/Orange) User Indicator: Channel Power (Green/Orange) 8001: System Indicator: AC Power (Green) User Indicator: Power on Spare (Green) Power on Data (Green)
Connectors	Shielded RJ-45, EIA 568A and 568B DB-9, Female (8006/12 only)
Environmental Conditions	Operating Ambient Temperature: 32 to 104 F (0 to 40 C) Operating Humidity: maximum 90%, non-condensing Storage Temperature: -4 to 158 F (-20 to 70 C) Storage Humidity: Maximum 95%, Non-condensing Operating Altitude: -1000 to 10,000 ft. (-304.8 to 3048 m)
Thermal Rating	8006/8012: 200 BTU/hrs 8001: 28 BTU/hrs

Regulatory Compliance	CE	CE		
Electromagnetic Emission & Imm	FCC C unity EN55 cablin EN55	FCC Class B Part 15 with FTP cabling EN55022 (CISPR 22) class B with FTP cabling EN55024 (CISPR 24)		
Safety Approval	UL/cU GS Ma	IL per EN 60950 ark per EN 60950		
Management (8006/12 Only)	SNMPv3 and Multiple agen management Web-Manager Security: MD5 DES p	Pv3 and Telnet ole agents accessible through single gement entity Management via PowerView Pro applicatio ity: MD5 authentication DES privacy algorithm		
Reliability	MTBF:	100,000 hours @ 25 C		
Service Contacts	USA: UK: International: E-Mail: custor	Tel: 1-877-480-2323 Tel: 0-800-085-8814 Tel: +972-9-7755123 mer care@powerdsine.com		

High Power Splitter Specifications

Input Power Requirements Outputs	RJ-45 Data and 48V power input on spare and data pairs RJ-45 Data Output connector DC Voltage 12V output (DC connectors: 5.5x3.3x1 and 5.5x2.5) Output Power continuous: 22W Output Power Peak: 26W (up to 10 sec.)
Detection Mechanism	IEEE 802.3af signature on both Data and spare pairs
Efficiency	Min 73%
Dimensions	1.26 x 3.0 in. x 4.8 in. (h * w * d) 33 x 75 x 120 mm (h * w * d)
Environmental Conditions	Operating Ambient Temperature: 32 to 47.6 F (0 to 40 C) Operating Humidity: maximum 93%, non-condensing Storage Temperature -14.4 to 183.6 F (-20 to 70 C) Operating Altitude: -1000 to 10,000 ft/304.8 to 3048 m)
Regulatory Compliance	CE
Electromagnetic Emission & Immunity	FCC Class B Part 15 with FTP cabling EN55022 (CISPR 22) class B with FTP cabling EN55024 (CISPR 24)

Ordering Information

Europe

Order Number	Description
PD-8001/AC	1 Port High Power over Ethernet Midspan
PD-8006/AC/M	6 Port High Power over Ethernet Midspan
PD-8012/AC/M	12 Port High Power over Ethernet Midspan
PD-AS-801/12-55331	High Power Splitter 48 Vdc to 12 Vdc
PD-KIT-8001-12V	1-Port High Power Midspan +
	48Vdc to 12Vdc Splitter

International Headquarters

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PowerDsine UK Lakeside House 1 Furzeground Way Stockley Park, Uxbridge UB11 1BD, United Kingdom Tel: +44 (0) 208 622 3107 Fax: +44 (0) 208 622 3200 uk@powerdsine.com



www.powerdsine.com

Sheet Data

PowerDsine 8000 Series High-power, securely managed & highly reliable Power over Ethernet Midspan Family

PowerDsine 8012, 8006, 8001

PowerDsine 8000 series is a unique High Power over Ethernet Midspan family providing up to 39 watts over the existing Ethernet infrastructure. It is a secure, managed, safe and cost-effective solution comprising 12, 6 and 1-port models that allow flexible installations in organizations of all sizes.

While many Ethernet switches today offer standard PoE capabilities, the 8000 Midspan series is a unique solution for installations that require higher levels of power.

High Power over Ethernet (PoE) broadens the power limitations set by the PoE standard beyond 15.4 watts per channel. It enables the powering of heavier power consumers such as multi-band WLAN access points, Pan-Tilt-Zoom network cameras, RFID readers and Video IP phones. The installation of such devices is significantly accelerated as the AC outlet presence is no longer a barrier for quick and cost-effective deployment.

The 8000 Midspan resides between the Ethernet switch and the data terminal, injecting power into the line. Power is carried over all 4-pairs of the Ethernet cable to avoid any potential thermal effects on the infrastructure.

Besides supporting high power consumption terminals, the 8000 Midspan also operates standard PoE terminals in accordance with the IEEE 802.3af standard, limiting the maximum power on those specific ports to 15.4 watts, over 2-pairs only.

With full support of SNMPv3, the 8006/12 series offers an advanced and secure network management using either web browser or SNMP station.



Features

Delivers up to 39 watts per port

connected to standard terminals

High level of network security

• Scalable 12, 6 & 1-port models

Remote SNMPv3 and Web management

Protects network infrastructure (8006/12)

POE

High Powe



· Safe & reliable High Power over Ethernet solution

Designed to meet IEEE 802.3af standard when



PowerDsine 8000 Series High Power over Ethernet Midspan Family

Key Benefits

Unique High-Power Solution

PowerDsine 8000 series is a unique solution, providing a highly cost-effective, safe and reliable means for powering IP terminals having high-power requirements, such as Multi Channel Wireless LAN Access Points, Pan Tilt Zoom (PTZ) Network Cameras, RFID Readers and others.

User Friendly

The 8000 Midspan is fully plug-and-play. Once turned on it initiates a negotiation process with all terminals and powers the ones found valid. The user can then easily manage and monitor the system using a user-friendly web application or any standard SNMP station.

Powerful Management for 8012

PowerDsine PowerView Pro is a Web / SNMP management application for system configuration and monitoring. It runs on Windows platform and on various management stations as HP OpenView, SNMPc and others. With PowerView Pro, specific ports can be turned on and off, parameters are set and power activity is monitored.

Security for 8006/8012

Advanced algorithms (MD5 & DES) ensure safe operation during authentication and runtime, protecting the Midspan from hacking hostilities.

Backward Compatible

The 8000 series supports high-power but is designed to meet IEEE 802.3af specifications when sensing 802.3af terminals. It can also power legacy applications, such as Cisco terminals, using proprietary pre-standards. Installed in conjunction with an Active Splitter, the Midspan provides power to legacy devices which are not equipped with PoE.

Scalability & Flexibility

The series comprises one, six and twelve port models. Multiple Midspans can be mounted in a wiring closet to support additional terminals, resulting in a simple, cost-effective method for expanding the network as requirements evolve.

Centralized Power Distribution

Reinforced with a central UPS, the Midspan provides a centralized distribution of backed-up power and ensures uninterrupted operation during power failures.

Future-Proof Investment

The 8000 series keeps your network ready for next-generation PoE applications as power requirements grow higher.

Cost-Effective

Independent of AC outlet presence, the Midspan saves installation costs in remote locations. The installation itself imposes only negligible network downtime resulting in higher organizational productivity.





PowerView Pro PowerDsine's Secure Web-based Remote Management System

PowerView Pro Capabilities

The PowerDsine PowerView Pro application runs on any standard PC, providing remote management of all Midspans deployed in the network (see Figure 2). 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.

High Power Splitter connected to PTZ Network Camera with non-standard Power consumption

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PowerView Pro Features

- Real-time remote PoE monitoring and configuration via:
- Secure Web management (SSL)
- Secure SNMP (though 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 Window-based PC platform
- Plug-and-play no software installation required prior to operation

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Regulatory Compliance		CE	
Electromagnetic Emission & Immunity		FCC Class B Part 15 with FTP cabling EN55022 (CISPR 22) class B with FTP cabling EN55024 (CISPR 24)	
Safety Approval		UL/cUL per EN 60950 GS Mark per EN 60950	
Management (8006/12 Only)	SNMP Multiple manag Web-M Security	Pv3 and Telnet ole agents accessible through single igement entity Management via PowerView Pro application ity: MD5 authentication DES privacy algorithm	
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Ordering Information

Description
1 Port High Power over Ethernet Midspan
6 Port High Power over Ethernet Midspan
12 Port High Power over Ethernet Midspan
High Power Splitter 48 Vdc to 12 Vdc
1-Port High Power Midspan +
48Vdc to 12Vdc Splitter

PowerDsine UK Lakeside House

Europe

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