



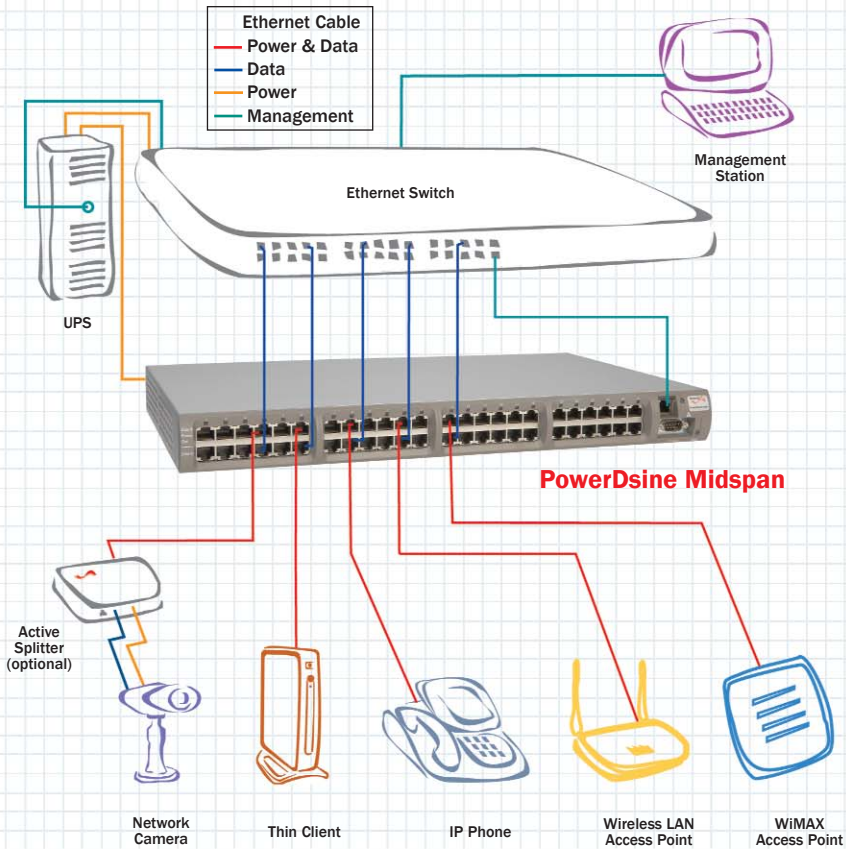
# PowerDsine<sup>®</sup> Midspans



*The Easy, Cost-efficient  
Way to Supply Power  
Over Existing  
Ethernet Infrastructure*



# PowerDsine® PoE Capabilities



PowerDsine Midspans are compatible with IP Phones, WiMax and WLAN Access Points, Security Cameras, Thin Clients and other terminals from more than 40 manufacturers including Cisco, Avaya, Alcatel, Sony, 3-COM, Proxim, Mitel, Nortel, ShorTel and many more. For the most up-to-date compatibility information, see the PowerDsine Compatibility Guide on our website: [www.microsemi.com](http://www.microsemi.com)

## PowerDsine Midspan Families

**3000 Midspan Series**  
Economy class, compact design, IEEE 802.3af PoE Unmanaged Midspans for low terminal density installations



**6500 Midspan Series**  
Business class PoE Managed Midspans with advanced NMS features and lifetime warranty.



**3500 Midspan Series**  
IEEE 802.3af PoE Unmanaged Midspan for the enterprise market, 19" rack mountable.



**7000G Midspan Series**  
High Power, Gigabit Midspan with advanced NMS features delivers 32W per port in 1, 6, 12 and 24 port models.



**6000G Midspan Series**  
Gigabit Business class PoE Managed Midspans with advanced NMS features and lifetime warranty.



**8000 Midspan Series**  
High Power PoE Midspans delivering up to 39W per port





# PowerDsine® Midspans

## Providing Easy, Low-Cost Power Over Existing Ethernet Infrastructure

Microsemi's PowerDsine Midspan is the first system on the market to supply reliable, uninterrupted power to IP phones, wireless LAN access points, network security cameras, and other ethernet devices using your existing CAT-5, CAT-5E and CAT-6 LAN cable infrastructure.

Ideal for both new and legacy installations, PowerDsine systems eliminate the time, cost and inconvenience of installing separate power cabling.

This patented technology, when used in conjunction with a centralized Uninterruptible Power Supply (UPS), ensures continuous operation of phones, access points and cameras – even during power failures.

Featuring a range of models, the PowerDsine solution can provide clean reliable power to 1 through 48 devices. Multiple units can be used for large installations.

Recently introduced high power midspans can deliver up to 39W of power to drive WiMax, 802.11n access points, Pan-Tilt-Zoom security cameras, and other devices requiring high power.

- **POWER UP TO 48 TERMINALS**
- **GIGABIT AND HIGH POWER APPLICATIONS**
- **EXCLUSIVE REMOTE SYSTEM MANAGEMENT**
- **FAST, LOW-COST PLUG AND PLAY INSTALLATION**
- **IEEE 802.3AF COMPLIANT**
- **LIFETIME WARRANTY \***

\* On select products

### Power Range

- Up to 39 Watts of power

### Device Compatibility

- IEEE 802.3af Compliant
- IEEE 802.3at pre-standard
- VoIP Phones
- Wireless Access Points
- Network Cameras
- High Power Terminals including Thin Clients, WiMax and 802.11n devices

### Port Capacity

- 1, 6, 12, 24 and 48-port

### Data Rates

- Maintains Switch Data Rates (10/100 and 10/100/1000)

### Cost Benefits

- Low purchase price: Midspan ports cost less than installing new PoE switches.
- Replace switches as needed; buy PoE just once.
- Eliminates the cost of installing AC power cabling and electrical outlets
- Protects your investment in existing infrastructure
- Simple Plug 'n Play installation, no configuration downtime
- Allows a single UPS for all terminals

### PowerView Pro™ Management

- Sophisticated management using just a PC and web browser
- Safe remote management from anywhere, even from home, using SNMPv3 or the CLI
- Enhance network operation with remote configuration, reboot and full power monitoring and control.
- Centralizes emergency UPS power to all connected devices
- See page 10-11 for PowerView Pro details

# PowerDsine® Midspan Systems

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## ***PowerDsine Preferred Partners: Expert Design, Installation and Service of PoE Systems***

Because Microsemi PowerDsine Midspans provide the ideal solution to add power over Ethernet capability for applications in markets ranging from education and finance to manufacturing and transportation, we have developed a global network of installation and system design specialists we call our Preferred Partners.

PowerDsine Preferred Partners are well-established in providing efficient system designs and quality installations for wireless LAN access points, IP phones, security cameras and other applications where Ethernet cables can supply both data and power.

Our goal is to assure that Preferred Partner organizations have the right tools, resources and support for successful applications that can help set them apart within their industries.

To that end, we supply:

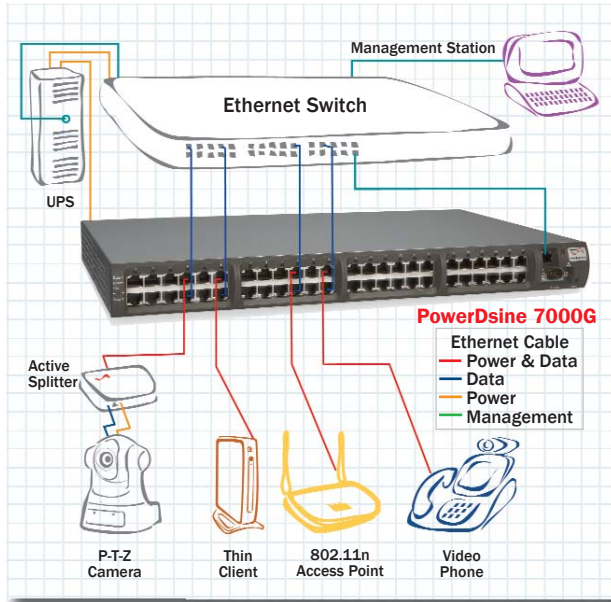
- Complimentary Tech Support and Training
- Direct Notification of Technical Upgrades
- New Product Notifications
- Exclusive Partner Promotions
- Design Registration Program
- Application Opportunities
- Application Publicity Opportunities
- Demonstration Equipment Program

Working with a PowerDsine Preferred Partner assures highest satisfaction in the design and installation of Power over Ethernet applications.

For more details, and to register as a Preferred Partner, visit <http://www.microsemi.com/PowerDsine/Partners/PreferredVAR>

# PowerDsine® 7000G Family

32W/port Gigabit Midspans for HiPoE & 802.3at Pre-standard Terminals



## Overview

The PowerDsine 7000G Family is designed specifically to power PTZ and Dome network cameras, 802.11n Access Points, Thin Clients, Video Phones and other Ethernet end terminals that require high power. It includes 6, 12, and 24-port models that are fully backward compatible and safe to use with any 802.3af terminal such as VoIP Phones, IP Cameras and WLAN Access Points. With PowerDsine PoE Midspans, data and power flow smoothly and safely over a single LAN cable with no interference, leaving your network infrastructure completely unaltered. For secure remote management, PD-7000G models include PowerView Pro management software.

## PD-7000G Features

- High Power over 2-pairs -- 32W per port
- 10/100/1000BaseT Gigabit Support
- Ideal for most 802.11n Access Points, WiMAX CPEs, PTZ IP Cameras, , Video Phones, Access Control Units, POS Terminals
- Safe and reliable with existing Ethernet infrastructure
- Scalable 6, 12 & 24-port models
- PoE pre-standard IEEE 802.3at
- PowerView Pro secure, remote SNMPv3 Web-based management included

## PD-7000G Specifications

<b>No. of Ports</b>	6/12/24
<b>Pass Through Data Rates</b>	10/100/1000 Mbps
<b>Power over Ethernet Output</b>	Pin Assignment and Polarity: 4/5 (+), 7/8 (-) Output Power Voltage: 55Vdc Power Per Port: 32W Typ. Aggregate Power: 420Watts
<b>Input Power Requirements</b>	AC Input Voltage: 100 to 240 Vac AC Input Current: 5.5A @ 110 Vac; 2A @ 220 Vac AC Frequency: 50 to 60 Hz
<b>Dimensions</b>	438 mm x 272 mm x 44 mm 17.3 in. x 10.8 in. x 1.75 in or 1U
<b>Weight</b>	14.3 lbs (6.5 kg)
<b>Management</b>	PowerView Pro included
<b>Indicators</b>	System Indicator: AC Power (Green) User Indicator: Channel Power (Green/Orange)
<b>Connectors</b>	PoE ports and management port: Shielded RJ-45, EIA 568A and 568B Console Port: DB-9, Male
<b>Environmental Conditions</b>	Operating Ambient Temperature: 32° to 104°F (0 to 40°C) Operating Humidity: 10% to 90%, Non-condensing Storage Temperature: -4° to 158°F (-20° to 70°C) Storage Humidity: 5% to 95%, Non-condensing Operating Altitude: -1000 to 10,000 ft. (-304.8 to 3048 m)
<b>Warranty</b>	Limited lifetime (see Terms and Conditions)
<b>Regulatory Compliance</b>	RoHS Compliant, VCCI, CE, C-Tick
<b>Electromagnetic Emission &amp; Immunity</b>	FCC Part 15, Class B with FTP cabling EN 55022 Class B (Emissions) EN 55024 (Immunity), VCCI
<b>Safety Approvals</b>	UL/cUL Per EN 60950 GS Mark Per EN 60950

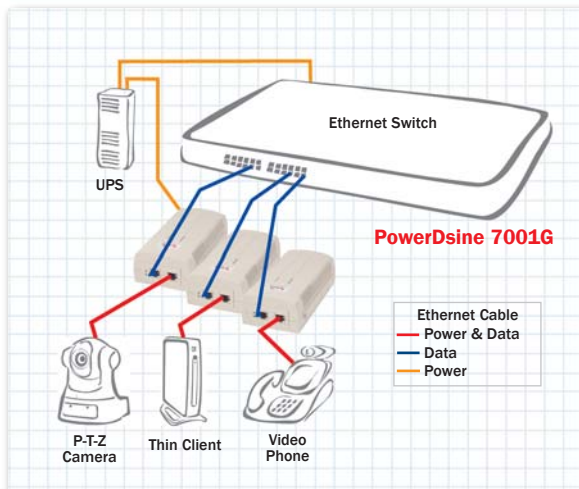
## Ordering Information



Part Number	Name	Description
PD-7006G/AC/M	PowerDsine 7006G	6-port
PD-7012G/AC/M	PowerDsine 7012G	12-port
PD-7024G/AC/M	PowerDsine 7024G	24-port
Accessory	Description	
PD-AS-701	2-pairs High Power Splitter	
PD-AS-601	Active splitter for legacy applications	
PD-PS-401	Passive splitter for legacy Cisco applications	

# PowerDsine® 7001G

High Power, Gigabit Single Port PoE Midspan



## Overview

The PowerDsine 7001G is a single port, high-power solution for remote powering of current and emerging high power applications.

Generating a maximum of 30W, the 7001G enables remote power for a new range of applications including pan-tilt-zoom (PTZ) cameras, video phones and thin clients. It complies to IEEE 802.3af PoE standard parameters, while doubling the power available from prior midspans. It can power both existing 10/100Base-T network devices and such emerging wireless gigabit devices as Wi-MAX and remote distance wireless IEEE 802.11n access points.

## PD-7001G Features

- Up to 30W of Power on 2-pairs
- IEEE 802.3af Compliant-With Double the Power
- Compatible With All IEEE 802.3af or Legacy Cisco-Powered Devices
- Safe: Low Power Devices Receive Only the Power They Need
- Safe and Reliable Power to WLAN Access Points
- Automatic Detection and Protection of Non-standard Ethernet Terminals
- Supports 10/100/1000BaseT applications
- Compact Design Fits Easily in WLAN Access Point Installations

## PD-7001G Specifications

<b>No. of Ports</b>	1
<b>Pass Through Data Rates</b>	10/100/1000 Mbps
<b>Power over Ethernet Output</b>	Pin Assignment and Polarity: 4/5 (+), 7/8 (-) Output Power Voltage: 55Vdc User Port Power: 30Watts Max.
<b>Input Power Requirements</b>	AC Input Voltage: 90 to 264 Vac AC Input Current: 1A @ 110-220 Vac AC Frequency: 47 to 63 Hz
<b>Dimensions</b>	87.9 mm x 51.3 mm x 166 mm 3.46 in. x 2.0 in. x 6.53 in
<b>Weight</b>	.771 lbs (350g)
<b>Indicators</b>	System Indicator: AC Power (Green)  User Indicator: Channel Power (Green)
<b>Connectors</b>	Shielded RJ-45, EIA 568A and 568B
<b>Environmental Conditions</b>	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)
<b>Reliability</b>	MTBF: 100,000 hrs. @25°C
<b>Thermal Rating</b>	300 BTU/Hr (@240VAC)
<b>Warranty</b>	1-year
<b>Regulatory Compliance</b>	IEEE 802.3af (PoE), RoHS Compliant WEEE Compliant, CE
<b>Electromagnetic Emission &amp; Immunity</b>	FCC Part 15, Class B with FTP cabling EN 55022 Class B (Emissions) EN 55024 (Immunity), VCCI
<b>Safety Approvals</b>	UL/cUL Per EN 60950 GS Mark Per EN 60950

## Ordering Information

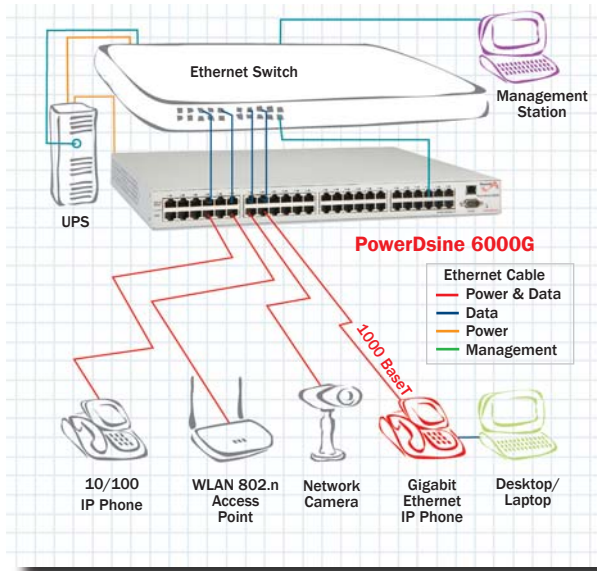


Part Number	Name	Description
PD-7001G/AC	PowerDsine 7001G	High Power 1-port Gigabit PoE, AC input
<b>Accessory</b>	<b>Description</b>	
PD-AS-701	2-pairs High Power Splitter	
PD-AS-601	Active splitter for legacy applications	
PD-PS-401	Passive splitter for legacy Cisco applications	



# PowerDsine® 6000G Family

Gigabit Midspans with Remote Network Management System



## Overview

PowerDsine's Power over Ethernet 6000G Midspan family provides safe power over standard Ethernet cabling to both existing 10/100 baseT network devices and emerging Gigabit devices.

The PowerDsine 6000G PoE Midspans are the market's first midspans providing power for Gigabit Ethernet devices, such as IP phones, wireless LAN access points and IP network video cameras in enterprise installations, offering long term investment protection by supporting both existing 10/100 baseT devices while ensuring support for future 1000 baseT devices.

## PD-6000G Features

- 6/12/24 Scalable PoE Ports
- Future-proofs your current infrastructure, supports data rates up to 1000Mbps
- 19" rack mountable, 1U height
- IEEE 802.3af standard-compliant
- Safe and cost effective power distribution over CAT5/5E/6 LAN infrastructure
- Automatic detection and protection of legacy non-PoE devices
- PowerView Pro Advanced Network Management

## PD-6000G Specifications

<b>No. of Ports</b>	6/12/24
<b>Pass Through Data Rates</b>	10/100/1000 Mbps
<b>Power over Ethernet Output</b>	Pin Assignment and Polarity: 4/5 (+), 7/8 (-) Output Power Voltage: 48Vdc User Port Power: 15.4Watts Max. Aggregate Power: 200Watts Power management
<b>Input Power Requirements</b>	AC Input Voltage: 90 to 264 Vac AC Input Current: 4A @ 110 Vac 2A @ 240 Vac AC Frequency: 47 to 63 Hz
<b>Dimensions</b>	438 mm x 302 mm x 44 mm 17.0 in. x 11.9 in. x 1.75 in
<b>Weight</b>	8.8 lbs (4 kg)
<b>Management</b>	PowerView Pro Included
<b>Indicators</b>	System Indicator: AC Power (Green/Orange)  User Indicator: Channel Power (Green/Orange)
<b>Connectors</b>	Shielded RJ-45, EIA 568A and 568B
<b>Environmental Conditions</b>	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)
<b>Reliability</b>	MTBF: 100,000 hrs. @25°C
<b>Thermal Rating</b>	300 BTU/Hr (@240VAC)
<b>Warranty</b>	Limited Lifetime
<b>Regulatory Compliance</b>	IEEE 802.3af (PoE), RoHS Compliant WEEE Compliant, CE
<b>Electromagnetic Emission &amp; Immunity</b>	FCC Part 15, Class B with FTP cabling EN 55022 Class B (Emissions) EN 55024 (Immunity), VCCI
<b>Safety Approvals</b>	UL/cUL Per EN 60950 GS Mark Per EN 60950

## Ordering Information

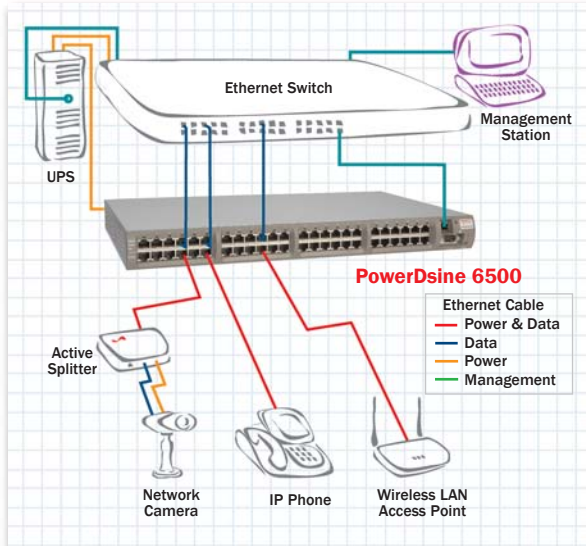


Part Number	Name	Description
PD-6006G/AC/M	PowerDsine 6006G	6 Ports/Management
PD-6012G/AC/M	PowerDsine 6012G	12 Ports/Management
PD-6024G/AC/M	PowerDsine 6024G	24 Ports/Management



# PowerDsine® 6500 Family

*Business-class Midspans with Network Management System and lifetime warranty*



## Overview

The PowerDsine 6500 series sets a new standard for highly secure, remotely-managed and safe-to-use Power over Ethernet Midspans (PoE injectors).

PowerDsine 6500 series comprises 6, 12, 24 and 48-port models, making an even wider range of flexible Power over Ethernet installations possible.

PowerDsine 6500 family allows 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 smoothly and safely over a single LAN cable with no interference.

## PD-6500 Features

- Safe & reliable power over existing Ethernet infrastructure
- The most cost-effective solution for existing installations
- Remote SNMPv3 or Web-based management
- The highest level of network security
- A safe solution that protects network infrastructure
- Scalable 6,12,24 & 48-port models
- Fully standards-compliant

## PD-6500 Specifications

<b>No. of Ports</b>	6/12/24/48
<b>Pass Through Data Rates</b>	10/100 Mbps
<b>Power over Ethernet Output</b>	Pin Assignment and Polarity: 4/5 (+), 7/8 (-) Output Power Voltage: -48Vdc User Port Power: 15.4Watts min. Aggregate Power: up to 400Watts
<b>Input Power Requirements</b>	AC Input Voltage: 90 to 264 Vac AC Input Current: 100W 2A @ 110 Vac, 1A @ 220 Vac 200W 4A @ 110 Vac, 2A @ 220 Vac 400W 5.5A @ 110 Vac, 2.75A @ 220 Vac AC Frequency: 47 to 63 Hz
<b>Dimensions</b>	438 mm x 272 mm x 44 mm 17.3 in. x 10.8 in. x 1.75 in or 1U
<b>Weight</b>	8.8 lbs (4 kg)
<b>Management</b>	PowerView Pro included
<b>Indicators</b>	System Indicator: AC Power (Green) User Indicator: Channel Power (Green)
<b>Connectors</b>	Shielded RJ-45, EIA 568A and 568B
<b>Environmental Conditions</b>	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)
<b>Reliability</b>	MTBF: 100,000 hrs. @25°C
<b>Thermal Rating</b>	285 BTU/Hr (@240VAC)
<b>Warranty</b>	Limited lifetime
<b>Regulatory Compliance</b>	IEEE 802.3af (PoE), RoHS Compliant WEEE Compliant, CE
<b>Electromagnetic Emission &amp; Immunity</b>	FCC Part 15, Class B with FTP cabling EN 55022 Class B (Emissions) EN 55024 (Immunity), VCCI
<b>Safety Approvals</b>	UL/cUL Per EN 60950 GS Mark Per EN 60950

## Ordering Information



Part Number	Name	Description
PD-6506/AC/M	PowerDsine 6506	6-port, 100W total power
PD-6512/AC/M	PowerDsine 6512	12-port, 200W total power
PD-6524/AC/M	PowerDsine 6524	24-port, 200W total power
PD-6524/AC/M/F	PowerDsine 6524	24-port, 400W total power
PD-6548/AC/M	PowerDsine 6548	48-port, 400W total power

# PowerView Pro™ Management

Highly Secure Web-based/SNMP Remote Network Management System

**View - Status**  
Midspan Nickname: Midspan PoE Device

Port Status Panel

#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Power (W)	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	7.1	0	0	0	0	0	0	0	0	0
Description																								

General Power Status Table

Midspan Status	
Total Power Consumption (Watt)	7.5
Maximum available Power (Watt)	200
System Voltage (Volt)	49.7
PD Detection Method	IEEE 802.3af + Legacy
Midspan Status	Active

UPS Power Management

Midspan UPS Powered by	AC
Midspan UPS Battery Level(%)	100
Midspan UPS Battery Time Left (min)	64

UPS Power Management

Port Power Status Panel

The View Status screen is the primary Midspan monitoring tool.

## Capabilities

PowerDsine PowerView Pro is a secure Web/SNMP management application designed to simplify power monitoring and control of PowerDsine Midspans via a local or remote computer. PowerView Pro provides direct on-line power supervision, configuration, monitoring and diagnostics of PowerDsine products. The manager can be accessed from any computer by WEB browser such as Internet Explorer/Netscape, from an SNMPv2c/SNMPv3 management station, or via the Command Line Interface (CLI) using Telnet/SSH, or RS232 Terminal.

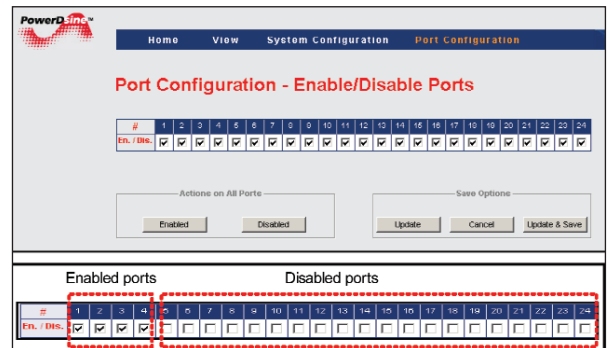
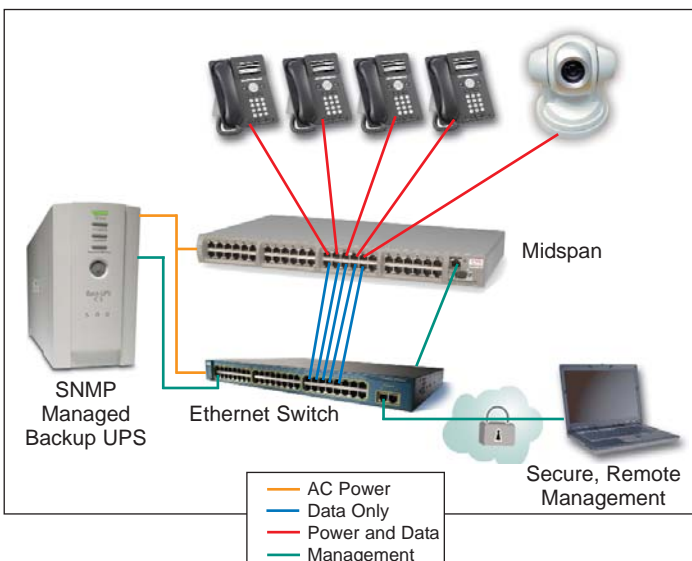
The SNMP capabilities of this management application can run on various network management stations such as HP OpenView, IBM Tivoli, Cassel rock SNMPc or any SNMP-capable software application. A built-in web server enables management of all Midspans deployed in the network.

## Features

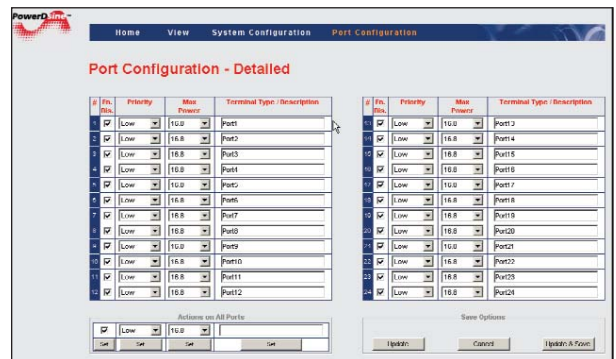
- Configuration and real time monitoring using graphical representations of remote device or Command Line Interface (CLI)
- System status display of all PoE ports and Midspan for power consumption and status
- Easy Manual activation/deactivation of PoE ports to reset power to devices
- Automatic activation/deactivation of PoE ports based on weekly or daily schedule
- Limit maximum power provided for PoE devices
- Monitor UPS status and battery level
- Critical/ High/Low PoE port priority
- Extend PoE devices operation time during power failure
- Automatic deactivation of low priority ports when UPS battery is low
- Easy software update during run time without affecting active PoE ports
- HTTP - Web based friendly configuration interface
- SSL - Secured WEB based configuration
- SNMP - Simple Network Management Protocol
- SNMP v2c/v1 and secured plus encrypted SNMPv3
- RFC3621 Power over Ethernet (PoE) SNMP MIBs
- Private MIB extension for RFC3621 PoE MIB
- Telnet - Remote terminal over Ethernet Network
- SSH - Remote encrypted terminal over Ethernet Network
- RADIUS - authentication and accounting for WEB / Telnet / SSH remote WEB users
- SysLog Server - Log events sent to remote SysLog Serve

## Benefits Overview

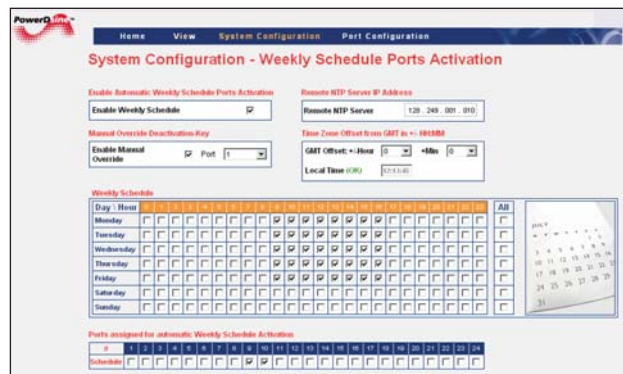
- Secure WEB (SSL/HTTPS), terminal (SSH), SNMP (SNMPv3) offers complete secured network management solution
- Detailed PoE power monitoring allows easy identification of devices which exceed normal power consumption
- Easy remote recovery of PoE devices by turning Off and On power to remote device
- Weekly/daily schedule automatic deactivation of PoE devices, such as Wireless Access points or IP Telephones during non-working hours, decrease the probability of hacking the company network or unauthorized toll calls and can be manually overridden
- Monitoring Uninterruptible Power Supplies (UPS) status and battery level together with PoE port priority extends the time UPS can provide power during power failure by automatically shutting down low priority PoE devices whenever the UPS battery level becomes low
- Integration with SNMP Network management stations provide easy monitoring of remote PoE devices
- SNMP Trap/Notification reports immediately to IT manager whenever new PoE device was connected to the company network or an existing device is removed
- RADIUS authentication simplify the maintenance for IT administrators
- RADIUS accounting allows easy logging of remote users
- Regular user & Administrator access privileges are differentiated and defined in configuration
- Software updates without temporary power shutdown of PoE devices such as IP telephones, and Access points offers easy maintenance during normal working hours
- Upload/download of configuration database simplify IT manager maintenance
- SysLog event reports provide human-readable event reports for those who prefer not to rely on SNMP reports



**Port Configuration Enable/Disable.** Each port may be individually enabled/disabled, or all ports may be enabled/disabled in one action.



**Port Configuration Detailed Screen.** Allows precise control of all ports: (1) Activate/shut down individual ports, (2) Allocate maximum power per port (except 80xx), (3) Set priority for each port, (4) Define port description and terminal type.

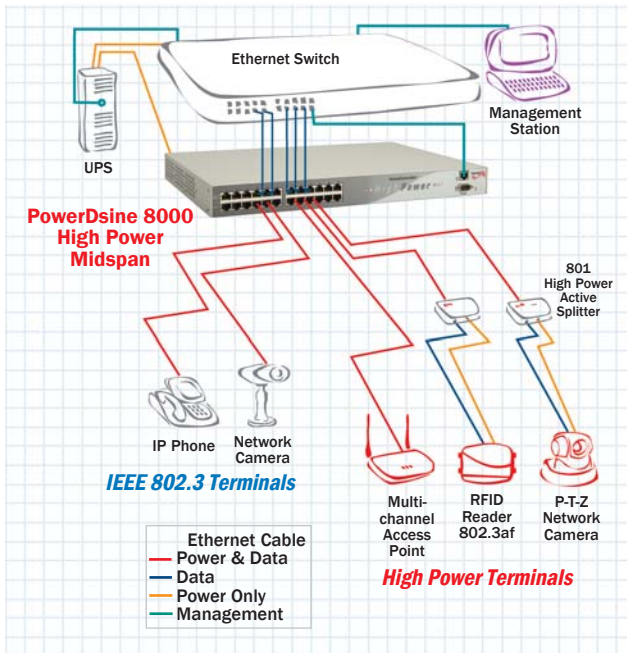


**Dynamic UPS Management Screen.** PoE ports can be given priority and power limits in anticipation of a power failure and reduced battery power levels. PowerView Pro will automatically shut down pre-defined ports when conditions warrant.



# PowerDsine® 8000 High Power Family

Up to 39 Watts Per Channel for High Power Devices



## PD-8000 Specifications

<b>Number of Ports</b>	1/6/12
<b>Data Rates</b>	10/100 Mbps
<b>High PoE Output</b>	Powering on 4 pairs simultaneously Pin Assignment and Polarity: 4/5 (+), 7/8 (-) and 1/2 (-), 3/6 (+)
<b>8006/8012:</b>	Output Voltage (typ.): 55.5Vdc Port Power (typ.): up to 39W (using Power management) Available Power: 200 W
<b>8001:</b>	Output Voltage (typ.): 55.5Vdc Port Power (typ.): 32W
<b>Input Power</b>	<b>8001:</b> 0.7 A at 110 Vac; 0.4 A at 220 Vac AC Frequency: 47 to 63 Hz
	AC Input Current: <b>8006/8012:</b> 4 A at 110 Vac; 2 A at 220 Vac
	<b>8006/8012/8001:</b> AC Input Voltage: 90 to 264 Vac
<b>Dimensions</b>	<b>8001:</b> 1.75 X 4.17 X 5.5 in. (h/w/d) 4.4 X 10.6 X 14.0 cm (h/w/d)
	<b>8006/8012:</b> 1.75 x 17.0 x 11.9 in. (h/w/ d) 4.4 x 43.8 x 30.2 cm (h/w/d)
<b>Management</b>	PowerView Pro included
<b>Weight</b>	<b>8006/8012:</b> 8.8 lbs (4 kg) <b>8001:</b> 1.0 lbs (350 g)
<b>Indicators</b>	<b>8006/8012:</b> AC Power (Green/Orange) DC Power (Green/Orange) Channel Power (Green) <b>8001:</b> AC Power (Green) Power on Spare (Green) Power on Data (Green)
<b>Connectors</b>	Shielded RJ-45, EIA 568A and 568B
<b>Environmental Conditions</b>	Operating Ambient Temperature: 32° to 104°F (0 to 40°C)
	Operating Humidity: Maximum 90%, Non-condensing
	Storage Temp: -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)
<b>Reliability</b>	MTBF: 100,000 hrs. @25°C
<b>Thermal Rating</b>	<b>8006/8012:</b> 200 BTU/Hr (@240VAC) <b>8001:</b> 28 BTU/Hr (@240VAC)
<b>Warranty</b>	Limited Lifetime
<b>Regulatory Compliance</b>	IEEE 802.3af (PoE), RoHS Compliant WEEE Compliant, CE
<b>Electromagnetic Emission &amp; Immunity</b>	FCC Part 15, Class B with FTP cabling EN 55022 Class B (Emissions) EN 55024 (Immunity), VCCI
<b>Safety Approvals</b>	UL/cUL Per EN 60950 GS Mark Per EN 60950

## Overview

The 8000 Midspan series is a unique solution for heavy power consumers such as multi-band WLAN access points, Pan-Tilt-Zoom network cameras, RFID readers and Video IP phones. Up to 39W of power is carried using all 4-pairs of the Ethernet cable to avoid any potential thermal effects on the infrastructure.

The 8000 Family also can safely operate standard PoE terminals by limiting the maximum power on those specific ports to 15.4 watts, and using 2-pairs only.

With PowerView Pro management, the 8006/12 series offers an advanced and secure network management using either web browser or SNMP station.

## PD-8000 Features

- Delivers up to 39 watts per port
- Safe & reliable High Power over Ethernet solution
- Designed to meet IEEE 802.3af standard when connected to standard terminals
- Remote SNMPv3 and Web management
- High level of network security
- Scalable 1, 6 & 12-port models

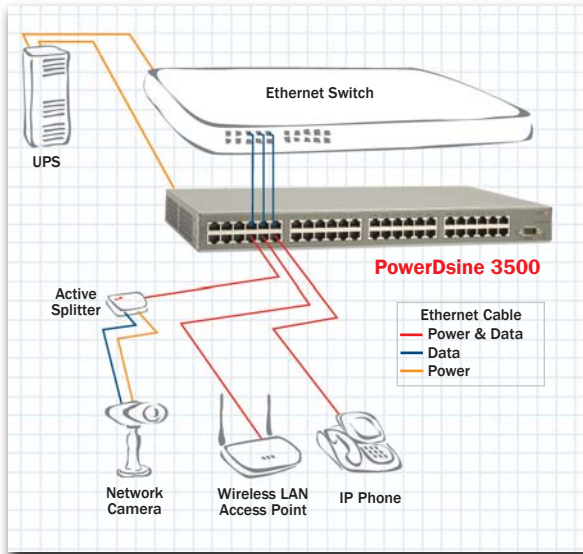
## Ordering Information



Part 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
Accessory	Description
PD-AS-701	4-pairs High Power Splitter

# PowerDsine<sup>®</sup> 3500 Family

Unmanaged Midspans for the Enterprise Market



## Overview

PowerDsine 3500 family offers a cost effective, fully IEEE 802.3af compliant solution to upgrade existing infrastructure with PoE, providing a maximum of 15.4 Watts of power through each port and ensuring safe operation of any standard PoE data terminal. It allows IP telephones, wireless LAN access points, security network cameras and IP terminals to receive power, along with data, over standard Ethernet cables, leaving network infrastructure completely unaltered.

## PD-3500 Features

- A cost-effective solution to upgrade existing infrastructure to PoE
- Safe & reliable power over existing Ethernet infrastructure
- Safe solution that Protects network infrastructure
- Scalable 12 & 24 port models for optimized installation
- Fully 802.3af standard compliant
- Cisco and legacy PoE support

## PD-3500 Specifications

<b>No. of Ports</b>	12/24
<b>Pass Through Data Rates</b>	10/100 Mbps
<b>Power over Ethernet Output</b>	Pin Assignment and Polarity: 4/5 (+), 7/8 (-) Output Power Voltage: 48Vdc User Port Power: 15.4Watts Max. Aggregate Power: 200Watts
<b>Input Power Requirements</b>	AC Input Voltage: 90 to 264 Vac AC Input Current: 4A @ 110 Vac 2A @ 240 Vac AC Frequency: 50 to 60 Hz
<b>Dimensions</b>	438 mm x 272 mm x 44 mm 17.3 in. x 17.7 in. x 1.73 in
<b>Weight</b>	8.8 lbs (4 kg)
<b>Indicators</b>	System Indicator: AC Power (Green)  User Indicator: Channel Power (Green)
<b>Connectors</b>	Shielded RJ-45, EIA 568A and 568B
<b>Environmental Conditions</b>	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)
<b>Reliability</b>	MTBF: 100,000 hrs. @25°C
<b>Thermal Rating</b>	300 BTU/Hr (@240VAC)
<b>Warranty</b>	1-year
<b>Regulatory Compliance</b>	IEEE 802.3af (PoE), RoHS Compliant WEEE Compliant, CE
<b>Electromagnetic Emission &amp; Immunity</b>	FCC Part 15, Class B with FTP cabling EN 55022 Class B (Emissions) EN 55024 (Immunity), VCCI
<b>Safety Approvals</b>	UL/cUL Per EN 60950 GS Mark Per EN 60950

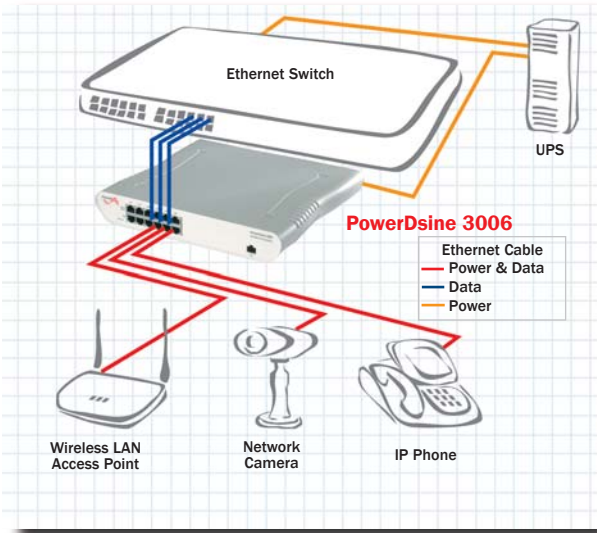
## Ordering Information



Part Number	Name	Description
PD-3512/AC	PowerDsine 3512	12-port, 200W total power
PD-3524/AC	PowerDsine 3524	24-port, 200W total power

# PowerDsine<sup>®</sup> 3006/3012 Family

Economy Class, Compact Design for the Small and Medium-sized Enterprise



## Overview

The PowerDsine 3006/3012 Midspans offers a very cost-effective, fully IEEE 802.3af compliant solution for remote powering of IP Phones, Network Cameras and wireless LAN access points, in low port density PoE installations.

The 3006/3012 midspans eliminate the need for external power supplies and its associated AC/DC power cabling, providing a compact, affordable, safe and reliable power solution for small to medium enterprises.

## PD-3006/3012 Features

- Fully IEEE 802.3af standard compatible
- Compatible with IEEE 802.3af or legacy powered devices
- Safe and reliable powering of wireless LAN access points, IP phones and low-port density installations
- Automatic detection and protection of non-standard Ethernet terminals
- Compact design specifically tailored for small and medium businesses
- Scalable solution offers 6 and 12-port products

## PD-3006/3012 Specifications

<b>No. of Ports</b>	6/12
<b>Pass Through Data Rates</b>	10/100 Mbps
<b>Power over Ethernet Output</b>	Pin Assignment and Polarity: 4/5 (+), 7/8 (-) Output Power Voltage: -48Vdc User Port Power: 15.4Watts Max. Aggregate Power: 100 Watts
<b>Input Power Requirements</b>	AC Input Voltage: 90 to 264 Vac AC Input Current: 2A @ 110 Vac 1A @ 220 Vac AC Frequency: 47 to 63 Hz
<b>Dimensions</b>	280 mm x 247 mm x 48 mm 11.02 in. x 9.7 in. x 1.9 in.
<b>Weight</b>	2.4 lbs (1.1 kg)
<b>Indicators</b>	System Indicator: AC Power (Green/Orange)  User Indicator: Channel Power (Green/Orange)
<b>Connectors</b>	Shielded RJ-45, EIA 568A and 568B
<b>Environmental Conditions</b>	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)
<b>Reliability</b>	MTBF: 100,000 hrs. @25°C
<b>Thermal Rating</b>	300 BTU/Hr (@240VAC)
<b>Warranty</b>	1-year
<b>Regulatory Compliance</b>	CE
<b>Electromagnetic Emission &amp; Immunity</b>	FCC Part 15, Class B with FTP cabling EN 55022 Class B (Emissions) EN 55024 (Immunity)
<b>Safety Approvals</b>	UL/cUL Per EN 60950 GS Mark Per EN 60950

## Ordering Information

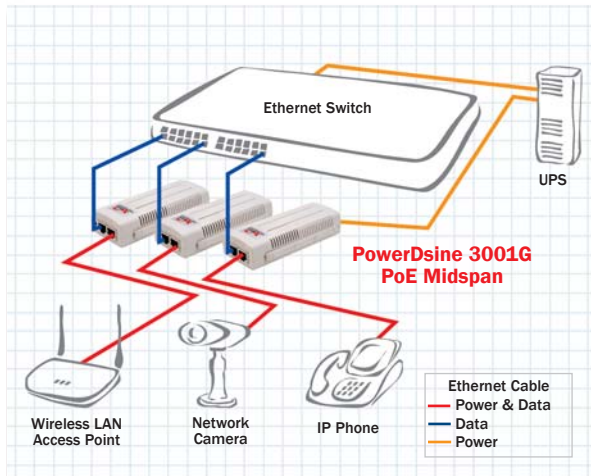


Part Number	Name	Description
PD-3006/AC	PowerDsine 3006	6-port Midspan
PD-3012/AC	PowerDsine 3012	12-port Midspan
Accessory	Description	
PD-3000/MBK	Bracket for 19" rack mounting	



# PowerDsine® 3001/3001G

Up to Gigabit PoE for Security Network and Low Terminal Density Installations



## Overview

PowerDsine's 3001/3001G Power over Ethernet (PoE) single port Midspan (PoE injector) offers a compact and cost effective, fully IEEE 802.3af compliant solution for security network and other low port density IP Terminal installations.

The 3001 PoE Midspan provides a compact, affordable, safe and reliable power solution over existing Ethernet infrastructure.

## PD-3001/3001G Features

- Cost-effective power distribution for WLAN access point installations
- Safe powering of 802.3af compliant, as well as Pre-standard end-terminals
- Investment protection of existing Ethernet switches and cabling infrastructure
- Saves time and reduces installation costs
- Easy plug-and-play installation
- Several units can be mounted adjacently for powering more than one Ethernet terminal
- Cleans up low-density wireless LAN deployment and eliminates the need for multiple one-port PoE solutions
- Supports Gigabit Ethernet data transmission for applications such as Wi-Max access points, Gig IP phones, and IP cameras

## PD-3001/3001G Specifications

<b>No. of Ports</b>	1
<b>Pass Through Data Rates</b>	10/100/1000 Mbps
<b>Power over Ethernet Output</b>	Pin Assignment and Polarity: 4/5 (+), 7/8 (-) Output Power Voltage: 48Vdc User Port Power: 15.4 Watts Max.
<b>Input Power Requirements</b>	AC Input Voltage: 90 to 264 Vac AC Input Current: 0.5A @ 110-220 Vac AC Frequency: 47 to 63 Hz
<b>Dimensions</b>	60 mm (W) x 31 mm (H) x 145 mm (L) 2.36 in. x 1.2 in. x 5.7 in
<b>Weight</b>	1 lbs (450g)
<b>Indicators</b>	System Indicator: AC Power (Green)  User Indicator: Channel Power (Green)
<b>Connectors</b>	Shielded RJ-45, EIA 568A and 568B
<b>Environmental Conditions</b>	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)
<b>Reliability</b>	MTBF: 100,000 hrs. @25°C
<b>Thermal Rating</b>	300 BTU/Hr (@240VAC)
<b>Warranty</b>	1-year
<b>Regulatory Compliance</b>	IEEE 802.3af (PoE), RoHS Compliant WEEE Compliant, CE
<b>Electromagnetic Emission &amp; Immunity</b>	FCC Part 15, Class B with FTP cabling EN 55022 Class B (Conductive Emissions on Telecommunications Port) EN 55024 (Immunity), VCCI
<b>Safety Approvals</b>	UL/cUL Per EN 60950 GS Mark Per EN 60950

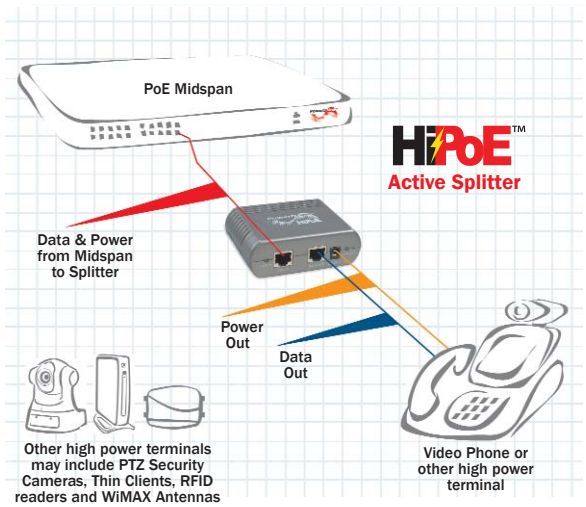
## Ordering Information



Part Number	Name	Description
PD-3001/AC	PowerDsine 3001	1-port 10/100 Mbps
PD-3001G/AC	PowerDsine 3001G	1-port 10/100/1000 Mbps

# PowerDsine® 701 High Power Splitter

High power splitter adapts incompatible 12V, 18V, & 24V devices to PoE



## PD-701 Specifications

<b>Connectors</b>	2 x RJ-45, shielded, EIA 568A and 568B DC Jack (On Unit) O.D x I.D = 2.5 x 6.4 ø mm DC Jack (Ext. Cable #1) O.D x I.D = 5.5 x 2.5 ø mm DC Jack (Ext. Cable #2) O.D x I.D = 3.4 x 1.4 ø mm
<b>Data Rate</b>	10/100/1000 Mbps
<b>Electrical</b>	Pin Assignment & Polarity: 3/6 (+),1/2 (-) or 4/5 (+),7/8 (-) Voltage: 44-57 Vdc Input power: 30W max Output power: 24W max Output current: 2A @ 12V 1.33A @ 18V 1A @ 24V

## Dimensions & Weight

31 mm H x 94 mm W x 73 mm D  
(1.12 in x 3.7 in x 2.87 in)  
1.12 gram (0.247 lbs)

<b>Indicators</b>	Input Power Indicator: Orange LED Output Power Indicator: Green LED
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<b>Environmental</b>	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
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<b>Thermal Rating</b>	19 BTU/Hr (@ Full Load)
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<b>Reliability</b>	MTBF: 100,000 hours @ 25°C
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<b>Electromagnetic Emissions &amp; Immunity</b>	FCC Part 15 Class A FTP, Class A UTP EN55022 (CISPR 22) Class A EN55024 (CISPR 24)
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<b>Regulatory Compliance</b>	CE
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<b>Warranty</b>	1-year
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## Overview

PowerDsine's PD-AS-701 High-Power active splitters enable data terminals that were not originally designed to accept power from the Ethernet, to be powered by HiPoE (High Power over Ethernet) switches and midspans.

The PD-AS-701 High Power series (12v, 18v and 24v) can power devices such as WiMAX CPEs, small WiMAX base-stations, 802.11n Access-Points, Thin-Clients, PTZ (Pan/Tilt/Zoom) IP Cameras, Video-Phones and more.

## The High Power Adaptive Splitter Solution

Many contemporary terminals are designed and deployed without the ability to accept power via their LAN input. Such devices can only accept power through their DC jack while their RJ45 input accepts only data. Moreover, such devices might only accept voltage levels lower than the PoE standard minimum voltage (44v in IEEE802.3af / 50v in 802.3at). Using the PD-AS-701 high power splitter, these terminals immediately become HiPoE-ready without any modification required on their side.

The splitter is identified as a powered device (PD) in front of the powering unit (Midspan or Switch) and after being detected and powered, it physically splits the data and power streams, arriving over a single cable, into two separate cords (LAN & DC) which go directly to the data terminal. Voltage regulation is also performed to the level required by the terminal (12V or 18V or 24V).

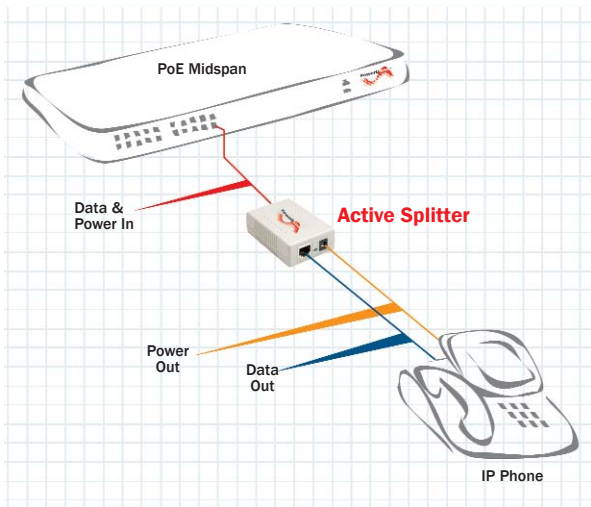
## Ordering Information



Part Number	Description
PD-AS-701/12	12V HiPoE Splitter
PD-AS-701/18	18V HiPoE Splitter
PD-AS-701/24	24V HiPoE Splitter

# PowerDsine® Splitters and Dongles

Splitter Adapts Incompatible Devices to PoE



## Overview

Although a standard defining PoE already exists (IEEE 802.3af), many contemporary terminals are designed and deployed without the ability to accept power via their LAN input — a basic requirement of the standard. Such devices can only accept power through their DC jack while their RJ45 input accepts only data. Moreover, such devices might only accept voltage levels lower than the standard's 48 volts dc.

Using a PowerDsine active or passive splitters or dongles, terminals immediately become PoE-ready without any modification required on their side.

## Features

- Switch/Midspan Support: Accepts power from either PoE switch or a Midspan.
- Voltage Regulation: Converts the standard 48 Volts to a lower voltage level, to match the terminal's specification.
- Simple Installation: Easily installed with no need for system reconfiguration.

## Specifications

<b>Connectors</b>	2 x RJ-45, shielded, EIA 568A and 568B PD-AS-601/5, PD-AS-601/12 and PD-AS-801/12: DC Jack O.D x I.D = 5.5 x 2.5φ x 1 mm DC Jack O.D x I.D = 5.5 x 3.3φ x 1 mm
<b>PD-AS-601/18:</b>	DC Jack O.D x I.D = 5.5 x 2.1φ mm x 13 mm DC Jack O.D x I.D = 5.5 x 2.5φ mm x 13 mm
<b>Data Rate</b>	10/100/1000 (pass through switch rate)
<b>Input Power Requirement</b>	Pin Assignment & Polarity: 3/6 (+),1/2 (-) or 4/5 (+),7/8 (-) Voltage: 48 Vdc Input power: 13.5W max
<b>PD-AS-601/5/12:</b>	Output power: 10W max Output current: 2A@5V; 0.8A@12V
<b>PD-AS-601/18:</b>	Output power: 7W max Output current: 0.38A@18V
<b>PD-AS-801:</b>	Output power continuous: 22W max Output power peak: 26W (up to 10 sec.) Output current: 1.83A@12V

## Dimensions & Weight

<b>PD-AS-601/5 and PD-AS-601/12:</b>	55 mm x 80.8 mm x 24.7 mm (2.2 in x 3.2 in x 1 in) 100 gram (0.2205 lbs)
<b>PD-AS-601/18 and PD-AS-801/12:</b>	75 mm x 120 mm x 33 mm (3 in x 4.8 in x 1.26 in) 220 gr (0.485 lbs), with DC cable

<b>Indicators</b>	Power Indicator: Green LED (PD-AS-601/5/12)
<b>Environmental</b>	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
<b>Thermal Rating:</b>	11 BTU/Hr (@ 5/12V)
<b>Reliability</b>	MTBF: 100,000 hours @ 25°C
<b>Electromagnetic Emissions &amp; Immunity</b>	FCC Part 15 Class A EN55022 (CISPR 22) Class A EN55024 (CISPR 24)
<b>Regulatory Compliance</b>	CE
<b>Warranty</b>	1-year

## Ordering Information



Part Number	Description
PD-AS-601/5	5V Active Splitter
PD-AS-601/12	12V Active Splitter (up to 10W*)
PD-AS-601/18	18V Active Splitter
PD-AS-801/12	12V High Power Active Splitter
PD-PS-401G/Cisco	HiPoE Passive Dongle for Cisco 802.11n APs
PD-PS-401/RA-NRTL	Passive Dongle for Nortel

\* For above 10W, use PD-AS-401/12



# PoE Tester

Check your RJ-45 Outlet for Power Using the PowerDsine® PoE Tester



PowerDsine PoE Tester

## Overview

The PoE Tester checks your RJ-45 outlet for power and identifies its source, Midspan or Endspan, i.e. IEEE 802.3af standard compliant Midspans/Switches and Cisco pre-standard Proprietary In-line Switches.

A PoE system is comprised of a PSE (Power Sourcing Equipment) and a PD (Powered Device). The PSE may either be an End-span (i.e. a layer 2 Ethernet Switch with integrated PoE) or a Midspan. The PD is a PoE-enabled terminal, such as IP phone, Wireless LAN access point and Network Security Camera.

## Features

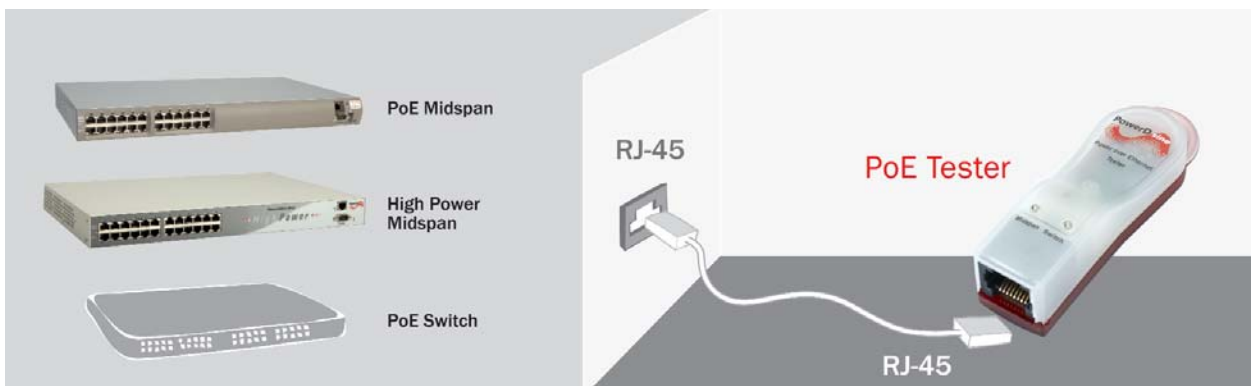
- Tests RJ-45 outlet for power
- Indicates the type of power source, including:
  - IEEE 802.3af midspans and switches
  - Cisco pre-standard in-line switches
  - High Power midspans
- Compact design specifically tailored for system integrators and installers
- Plug and play, simple to use

## PD-Tester Specifications

<b>Input</b>	RJ-45 connector Category 5/5e/6 cable with RJ-45 connectors
<b>Dimensions</b>	24 mm x 76 mm x 22 mm .94 in. x 2.99 in. x .87 in.
<b>Weight</b>	.5 oz. (15 grams)
<b>Indicators</b>	Midspan LED Display (Blue) Endspan LED Display (Blue)
<b>Connectors</b>	Shielded RJ-45, EIA 568A and 568B
<b>Environmental Conditions</b>	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)
<b>Warranty</b>	1-year
<b>Regulatory Compliance</b>	CE
<b>Electromagnetic Emission &amp; Immunity</b>	FCC Part 15, Class B with FTP cabling EN 55022 Class B (Emissions) EN 55024 (Immunity)
<b>Safety Approvals</b>	UL/cUL Per EN 60950 GS Mark Per EN 60950

## Ordering Information

Part Number	Name	Description
PD-Tester	PD Tester	Power over Ethernet Tester for RJ45 Outlet



# Selection Guides

## Midspan Selection Guide

Midspan Model	Page	Ports					Output Watts (max)				Power View Pro	Data Rate**		Warranty
		1	6	12	24	48	15	30	32	39		10/100	10/100/1000	
7006G	6		♦						♦				♦	Lifetime*
7012G				♦					♦				♦	Lifetime*
7024G						♦			♦				♦	Lifetime*
7001G	7	♦						♦					♦	1-year
6006G	8		♦					♦					♦	Lifetime*
6012G				♦				♦					♦	Lifetime*
6024G						♦			♦				♦	Lifetime*
8001	12	♦										♦		1-year
8006			♦									♦		Lifetime*
8012					♦							♦		Lifetime*
6506	9		♦					♦				♦		Lifetime*
6512				♦				♦				♦		Lifetime*
6524						♦			♦			♦		Lifetime*
6548							♦		♦			♦		Lifetime*
3512	13			♦				♦				♦		1-year
3524					♦			♦				♦		1-year
3006	14		♦					♦				♦		1-year
3012					♦				♦			♦		1-year
3001	15	♦						♦				♦		1-year
3001G			♦						♦				♦	1-year

## Splitter Selection Guide

Splitter Model	Page	Volts				Watts				Data Rates**		Warranty	
		5	12	18	24	7	10	22	30	10/100	10/100/1000		
601/5	17	♦					♦					♦	1-year
601/12			♦				♦					♦	1-year
601/18					♦		♦					♦	1-year
801/12	17		♦						♦			♦	1-year
701/12	16		♦						♦			♦	1-year
701/18				♦					♦			♦	1-year
701/24						♦			♦			♦	1-year

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**Microsemi.**

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