



# PowerDsine Midspans

**Power over Ethernet**



***Cuts installation costs***

***Saves time***

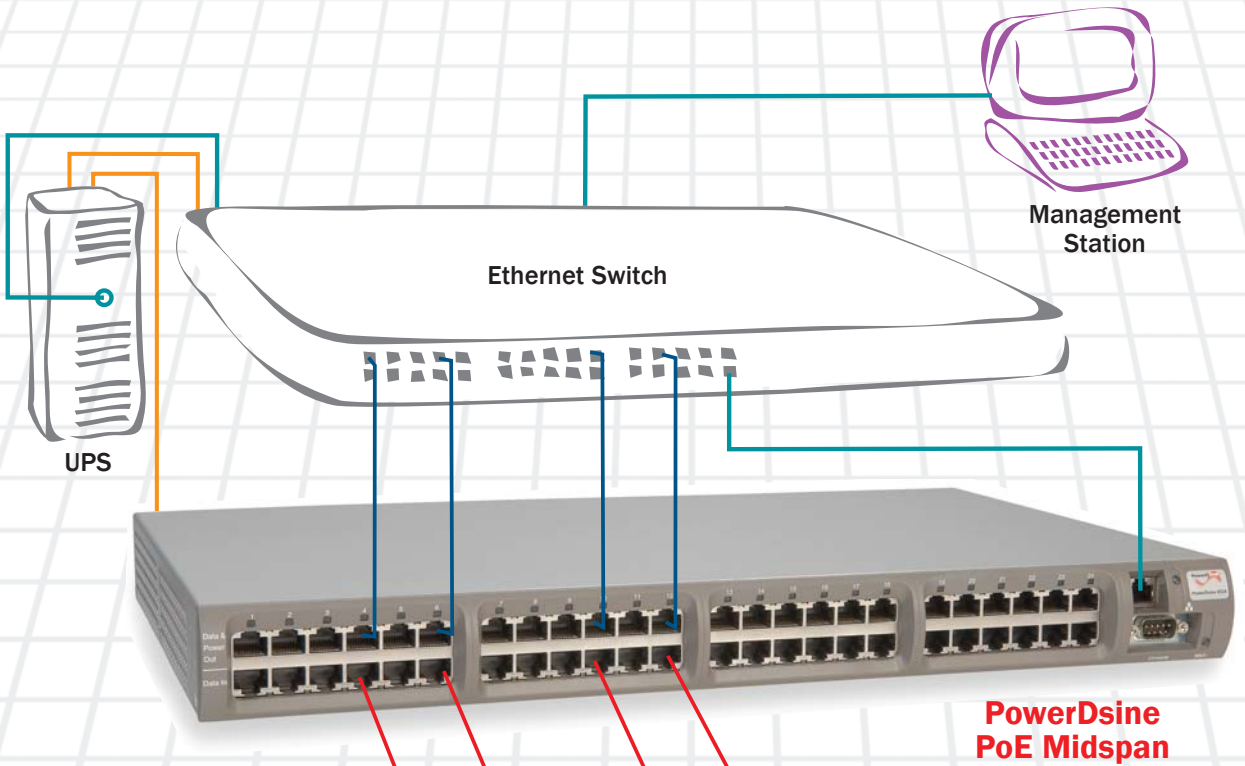
***Up to 39 Watts per port***

***Plug and Play installation***

***Meets IEEE 802.3af***



**Microsemi.**



**Ethernet Cable**  
 — Power & Data  
 — Data  
 — Power  
 — Management

**Active Splitter (optional)**

**Network Camera**

- Axis
- Bosch
- Canon
- JVC
- Panasonic
- Philips
- Sony
- Toshiba

**Thin Client**

All major thin client vendors

**10/100 VoIP Phone**

- |             |          |
|-------------|----------|
| 3Com        | Philips  |
| Alcatel     | Pingtel  |
| Altigen     | Polycom  |
| Ascom       | Samsung  |
| Astra       | ShoreTel |
| Avaya       | Siemens  |
| Cisco       | Snom     |
| DeTeWe      | Tadiran  |
| Ericsson    | Telrad   |
| Innovaphone | Thomson  |
| ipDialog    | Toshiba  |
| Mitel       | UniData  |
| NEC         | Uniden   |
| Nortel      | VODAVI   |

**Wireless LAN Access Point**

- |            |          |
|------------|----------|
| 3Com       | HP       |
| Agere      | Intel    |
| Airespace  | Intermec |
| ARtem      | Lancom   |
| Aruba      | Leviton  |
| Avaya      | Meru     |
| Bluesocket | Netgear  |
| Cisco      | Netopia  |
| Colubris   | Newbury  |
| Dell       | Nokia    |
| D-Link     | Systemax |
| Enterasys  | Trapeze  |
| Foundry    |          |

**Bluetooth Access Points**

- Axis
- Red-M

# ***PowerDsine Midspan: A Powerfully Simple Solution That Combines Power and Data***

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, 5E and CAT-6 LAN cable infrastructure.

Ideal for both new and legacy installations, PowerDsine eliminates 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 Pan-Tilt-Zoom security cameras, multichannel access points and other devices requiring high power.



## **Power Range**

- Up to 39 Watts of power

## **Device Compatibility**

- VoIP Phones
- Wireless Access Points
- Network Cameras
- High Power Terminals including Thin Clients, PTZ Cameras 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**

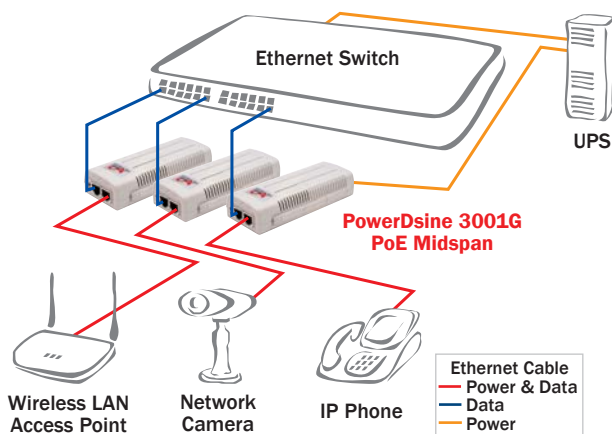
- Low purchase price: Midspan ports cost less than installing new PoE switches.
- Replace switches as needed; buy PoE just once.
- Eliminates the cost of installing AC power cabling and electrical outlets
- Amortizes and protects your investment in existing infrastructure
- Plug 'n Play installation

## **Management Benefits**

- Sophisticated management using just a PC and web browser
- Remote manage from anywhere, even from home.
- Enhance network operation with remote configure, reboot and full power monitoring and control.
- Centralizes emergency UPS power to all connected devices

# PowerDsine 3001/3001G

## Up to Gigabit PoE for 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 IP telephones, wireless LAN access points, security network cameras and IP terminals and other low port density installations.

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

### PD3001/3001G 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.



### 3001/3001G SPECIFICATIONS

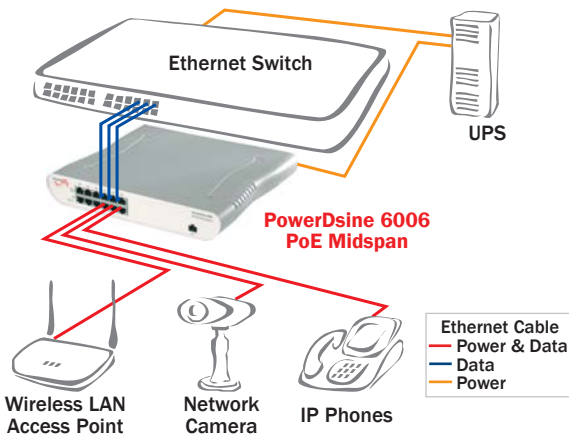
<b>No. of Ports</b>	1
<b>Pass Through Data Rates</b>	10/100/1000 Mbps
<b>Power over Ethernet Output</b>	Pin Assignment and Polarity: 4/5 (+), 7/8 (-) Output Power Voltage: 48Vdc User Port Power: 15.4 Watts Max.
<b>Input Power Requirements</b>	AC Input Voltage: 90 to 264 Vac AC Input Current: 0.5A @ 110-220 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 3006/3012

Cost Effective 6 and 12 Ports for the SME



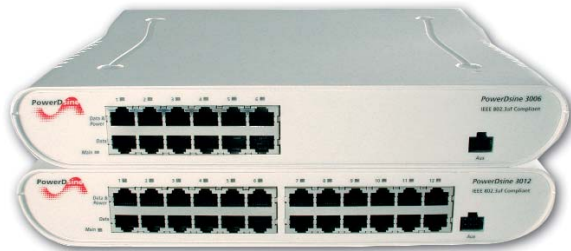
## OVERVIEW

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.

### PD3006/3012 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



## 3006/3012 SPECIFICATIONS

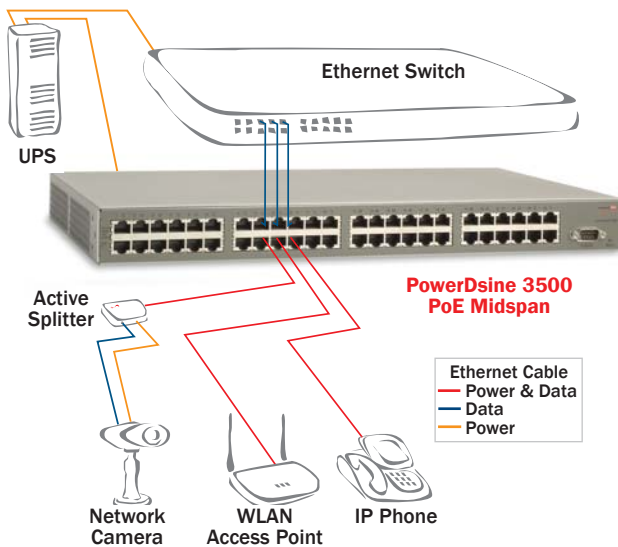
<b>No. of Ports</b>	6/12
<b>Pass Through Data Rates</b>	10/100 Mbps
<b>Power over Ethernet Output</b>	Pin Assignment and Polarity: 4/5 (+), 7/8 (-) Output Power Voltage: -48Vdc User Port Power: 15.4Watts Max. Aggregate Power: 100 Watts
<b>Input Power Requirements</b>	AC Input Voltage: 90 to 264 Vac AC 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 3500 Family

Cost-effective 12 and 24 ports for the Enterprise



## 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.

### PD3500 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



## 3500 SPECIFICATIONS

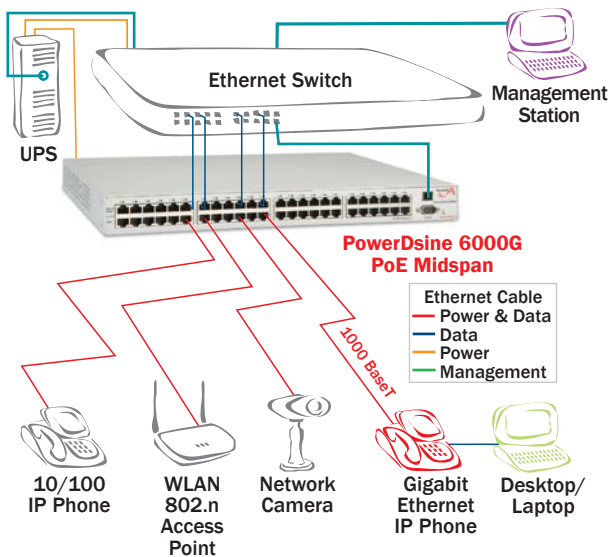
<b>No. of Ports</b>	12/24
<b>Pass Through Data Rates</b>	10/100 Mbps
<b>Power over Ethernet Output</b>	Pin Assignment and Polarity: 4/5 (+), 7/8 (-) Output Power Voltage: 48Vdc User Port Power: 15.4Watts Max. Aggregate Power: 200Watts
<b>Input Power Requirements</b>	AC Input Voltage: 90 to 264 Vac AC 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	PowerDsine3524	24-port, 200W total power

# PowerDsine 6000G Family

6, 12 and 24 port, standard power, Gigabit PoE



## 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.

## PD6000 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 Management



## 6000G SPECIFICATIONS

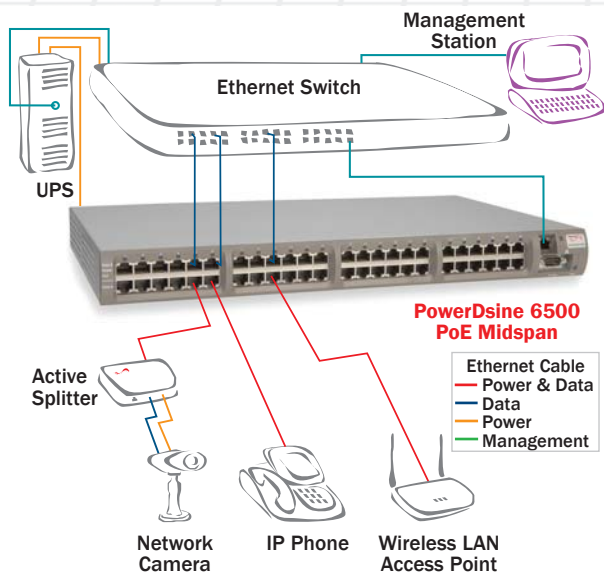
<b>No. of Ports</b>	6/12/24
<b>Pass Through Data Rates</b>	10/100/1000 Mbps
<b>Power over Ethernet Output</b>	Pin Assignment and Polarity: 4/5 (+), 7/8 (-) Output Power Voltage: 48Vdc User Port Power: 15.4Watts Max. Aggregate Power: 200Watts Power management
<b>Input Power Requirements</b>	AC Input Voltage: 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
Gigabit PoE Midspan		
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 Power over Ethernet with Advanced Security



### 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, 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.

### PD6500 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



### 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

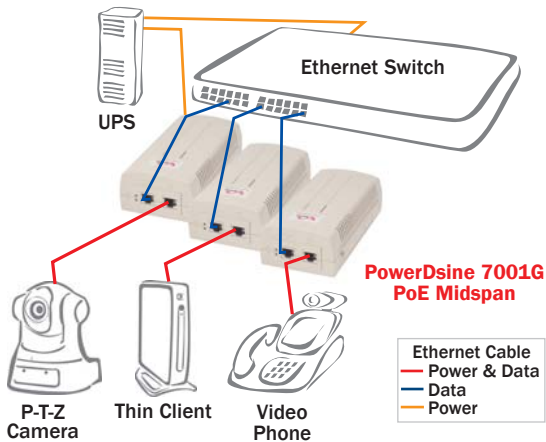
### Ordering Information

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
Accessory	Description	
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 10/100 baseT network devices and such emerging wireless gigabit devices as Wi-MAX and remote distance wireless IEEE 802.11n access points.

## PD7001G 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



## 7001G SPECIFICATIONS

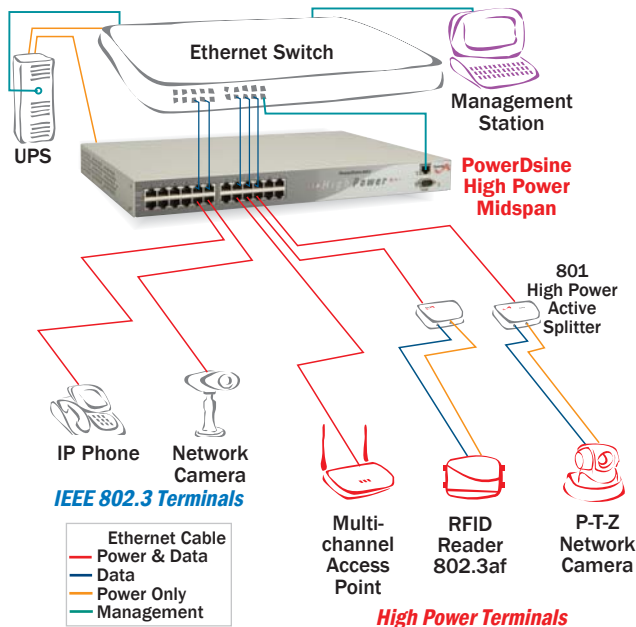
<b>No. of Ports</b>	1
<b>Pass Through Data Rates</b>	10/100/1000 Mbps
<b>Power over Ethernet Output</b>	Pin Assignment and Polarity: 4/5 (+), 7/8 (-) Output Power Voltage: 55Vdc User Port Power: 30Watts Max.
<b>Input Power Requirements</b>	AC Input Voltage: 90 to 264 Vac AC Input Current: 1A @ 110-220 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

# PowerDsine 8000 High Power Family

Up to 39 Watts per channel for high power devices



## 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.

## PD8000 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

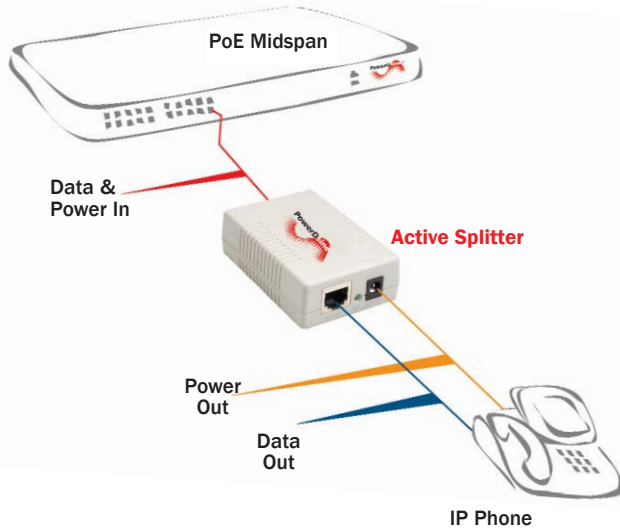
Part Number	Description
PD-8001/AC	1 Port High Power over Ethernet Midspan
PD-8006/AC/M	6 Port High Power over Ethernet Midspan
PD-8012/AC/M	12 Port High Power over Ethernet Midspan
PD-AS-801/12-55331	High Power Splitter 48 Vdc to 12 Vdc
PD-KIT-8001-12V	1-Port High Power Midspan + 48Vdc to 12Vdc Splitter

## 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>8006/8012/8001:</b> AC Input Voltage: 90 to 264 Vac AC Input Current: <b>8006/8012:</b> 4 A at 110 Vac; 2 A at 220 Vac <b>8001:</b> 0.7 A at 110 Vac; 0.4 A at 220 Vac AC Frequency: 47 to 63 Hz
<b>Dimensions</b>	<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>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>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 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>	<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

# PowerDsine Active Splitters

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 splitter, these terminals immediately become PoE-ready without any modification required on their side.

## Splitter 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.



## Active Splitter Specifications

### Connectors

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

**PD-AS-601/18:**

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

### Data Rate

10/100/1000 (pass through switch rate)

### Input Power Requirement

Pin Assignment & Polarity: 3/6 (+),1/2 (-) or 4/5 (+),7/8 (-)

Voltage: 48 Vdc

Input power: 13.5W max

**PD-AS-601/5/12**

Output power: 10W max

Output current: 2A@5V; 0.8A@12V

**PD-AS-601/18**

Output power: 7W max

Output current: 0.38A@18V

**PD-AS-801**

Output power continuous: 22W max

Output power peak: 26W (up to 10 sec.)

Output current: 1.83A@12V

### Dimensions & Weight

**PD-AS-601/5 and PD-AS-601/12:**

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)

**PD-AS-601/18 and PD-AS-801/12:**

75 mm x 120 mm x 33 mm(3 in)

(3 in x 4.8 in x 1.26 in)

220 gr (0.485 lbs), with DC cable

### Indicators

Power Indicator: Green LED (PD-AS-601/5/12)

### 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

### Thermal Rating:

11 BTU/Hr (@ 5/12V)

### Reliability

MTBF: 100,000 hours @ 25°C

### Electromagnetic Emissions & Immunity

FCC Part 15 Class A

EN55022 (CISPR 22) Class A

EN55024 (CISPR 24)

### Regulatory Compliance

CE

### Warranty

1-year

## Ordering Information

Part Number	Description
PD-AS-601/5	5V Active Splitter
PD-AS-601/12	12V Active Splitter
PD-AS-601/18	18V Active Splitter
PD-AS-801/12	12V High Power Splitter

# PowerView Pro Management

Highly Secure Web-based/SNMP Remote 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)	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0	0	0	0	0	0	0	0	0	0	0	0
Description	!	!	!	!	!	!	!	!	!	!	!	!	!	!	!	!	!	!	!	!	!	!	!	!

**General power status table**

Total Power Consumption (Watt)	8.4
Maximum available Power (Watt)	200
System Voltage (Volt)	49.1
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

**Ports power status table**

**UPS Power management Dedicated Information**

The View Status screen is the primary Midspan monitoring tool.

## PowerView Pro 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 an Internet Explorer/Netscape, SNMPv2c/SNMPv3 management station, Telnet/SSH, or RS232 Terminal.

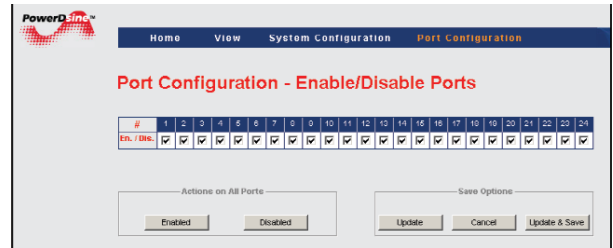
The SNMP capabilities of this management application can run on various network management stations such as HP OpenView , IBM Tivoli, Cassel rock SNMPc or any SNMP-capable software application. A built-in web server enables management of all Midspans deployed in the network.

## PowerView Pro provides a number of unique features:

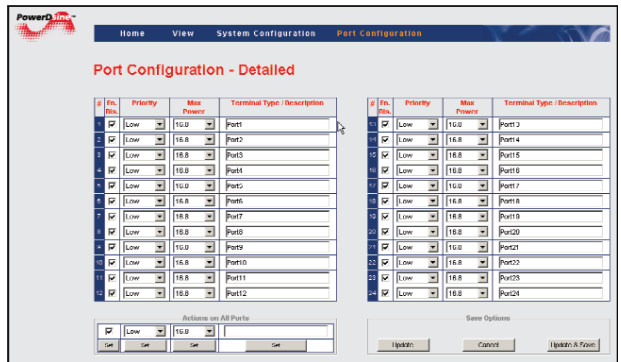
- Configuration and real time monitoring using graphical representations of remote device
- System status display of all PoE ports and Midspan for power consumption and status
- Easy Manual activation/deactivation of PoE ports to reset power to devices
- Automatic activation/deactivation of PoE ports 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

## PowerView Pro Benefits Overview

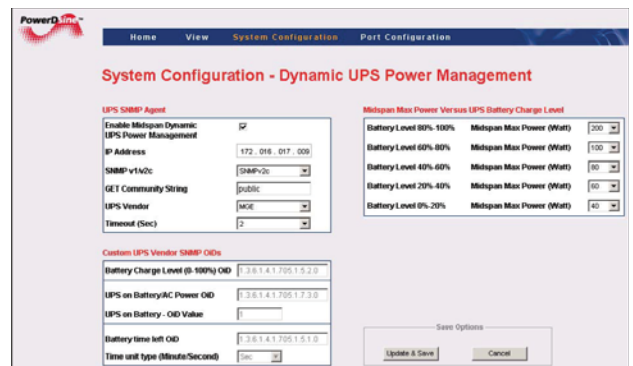
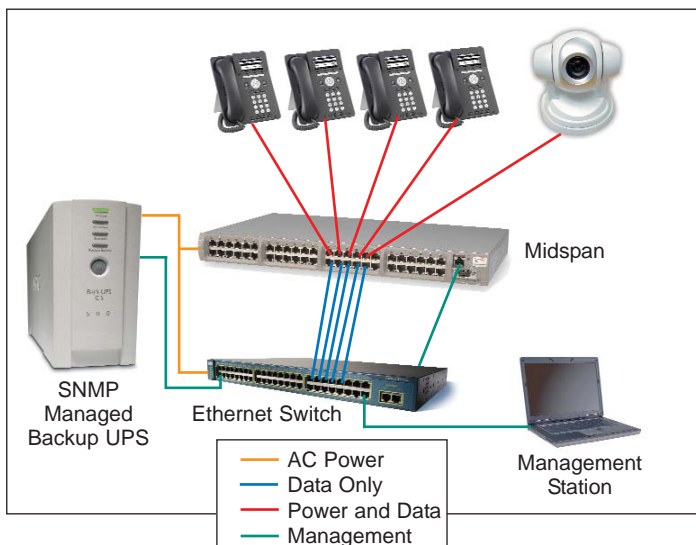
- Secure WEB (SSL/HTTPS), terminal (SSH), SNMP (SNMPv3) offers complete secured network management solution
- Detailed PoE power monitoring allows easy identification of devices which exceed normal power consumption
- Easy remote recovery of PoE devices by turning Off and On power to remote device
- 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. ProView will automatically shut down pre-defined ports when conditions warrant.

# PoE Tester

Check your RJ-45 outlet for power using the PowerDsine PoE Tester



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.

## PoE Tester Features

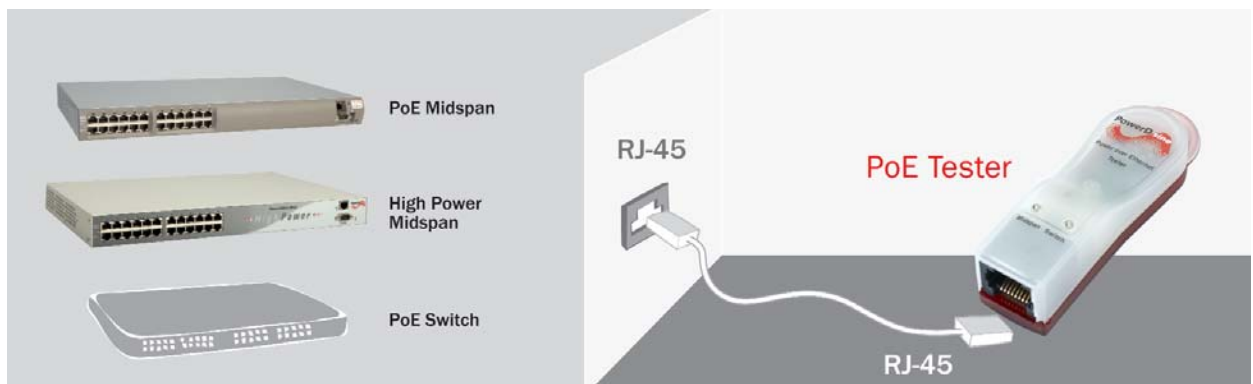
- Tests RJ-45 outlet for power
- Indicates the type of power source, including:
  - IEEE 802.3af midspans and switches
  - Cisco pre-standard in-line switches
  - High Power midspans
- Compact design specifically tailored for system integrators and installers
- Plug and play, simple to use

## PoE 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



PoE Tester tests for power and identifies the source, distinguishing between switches, midspans and high-power midspans.



**Microsemi**<sup>®</sup>

**International**

Microsemi Corporation  
1 Hanagar Street  
P.O. Box 7220  
Hod Hasharon 45421  
Israel  
Tel: +972-9-7755100  
Fax: +972-9-7755111  
PowerDsine@Microsemi.com

**North America**

Microsemi Corporation  
290 BroadHollow Road  
Suite 305E  
Melville, NY 11747  
Tel: +1-631-756-4680  
Fax: +1-631-756-4691  
PowerDsineUSA@Microsemi.com

**Europe**

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

**Corporate Headquarters**

Microsemi Corporation  
2381 Morse Avenue  
Irvine, California 92614  
USA  
Tel: +1-949-221-7100  
Fax: +1-949-756-0308  
www.microsemi.com

**[www.microsemi.com](http://www.microsemi.com)**

**Copyright © Microsemi Corporation, 2007. Information in this document is subject to change without notice.**

Microsemi and PowerDsine are trademarks of Microsemi Corporation. All other trademarks are property of their respective owners. Compatibility between PowerDsine's product and any third party product is based solely on PowerDsine's own testing.