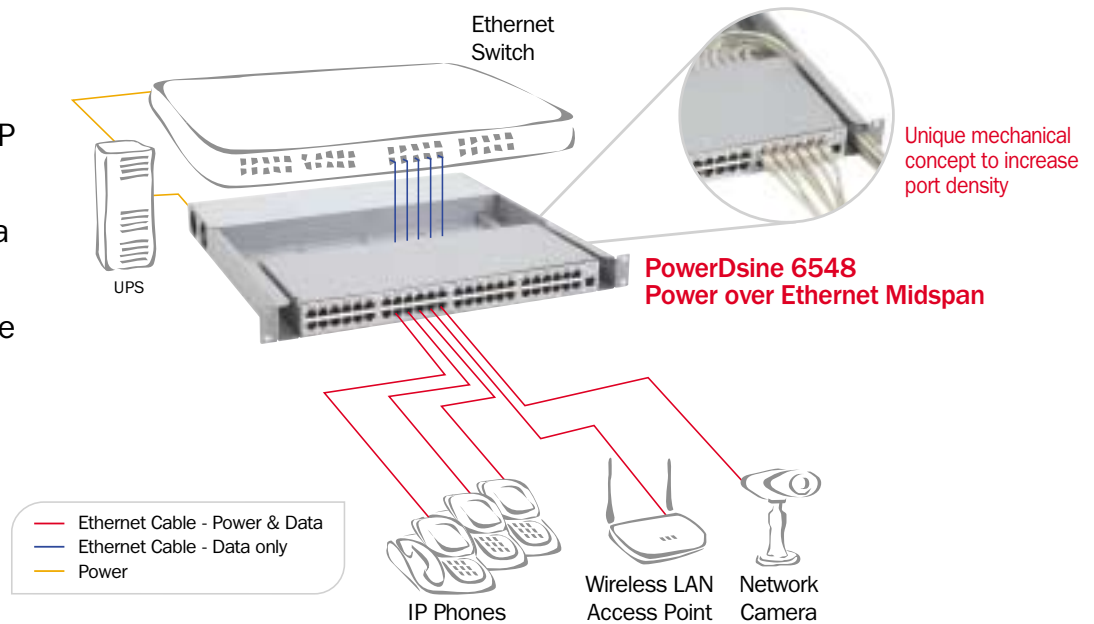# PowerDsine 6548

High Density, Condensed 48-port Power over Ethernet Midspan

PowerDsine's 6548 Power over Ethernet 48-port Midspan provides safe power over standard Ethernet cabling to 48 terminals simultaneously, without replacing the existing Ethernet switches.

The PowerDsine 6548 Midspan is the optimal solution for powering IP phones in large installations, offering a revolutionary approach that provides twice the port density in a 19" rack mountable, 1U device.

Ethernet Switch

Unique mechanical concept to increase port density

UPS

PowerDsine 6548 Power over Ethernet Midspan

— Ethernet Cable - Power & Data
— Ethernet Cable - Data only
— Power

IP Phones

Wireless LAN Access Point

Network Camera

Features

- 48 Power over Ethernet (PoE) ports
- High port density in 19" rack mountable, 1U device
- Safe and cost-effective power distribution
- Fully IEEE 802.3af standard-compliant
- Automatic detection and protection of legacy non-PoE terminals
- Web browsing and SNMP MIB support – optional

Benefits

- Safe powering of standard-compliant IP Phones, as well as pre-standard and Cisco devices
- 50% rack space saving
- Cost saving - network upgrade without replacing existing switches
- Increased availability and reliability – IP phones are always alive, even during power outage
- Only one central UPS to back up all IP phone installations - no need for UPS for each IP phone
- Advanced management features

Rear view

Front view

PowerDsine™

The Power over Ethernet Pioneers

PowerDsine 6548
High Density, Condensed 48-port Power over Ethernet Midspan

Description of Features

- **Keep the Existing Infrastructure** – PowerDsine 6548 Power over Ethernet (PoE) Midspans connect to an existing Ethernet infrastructure via standard Category 5/5e/6 cabling, thus enabling the upgrade of the network to PoE while keeping the existing switch. An external splitter may be installed where an end terminal is not standard-compliant.

- **Remote Power Feeding** – The PowerDsine 6548 eliminates the need for external power supply and its associated AC/DC power cabling, thus providing a highly cost-effective, safe and reliable means for remote powering of Voice over IP phones and other IP devices in the enterprise.

- **Compact Size** – The standard 19-inch, 1U high PoE Midspan doubles the existing port density while occupying minimal space in the wiring closet. It offers a unique mechanical design to allow the support of 48 powered devices simultaneously.

- **Centralized Power Distribution** – The PowerDsine 6548 provides a cost-effective way to distribute power and ensure uninterrupted operation of the network during electrical power failure, when connected with a central UPS.

- **Standard Compliance** – PowerDsine 6548 PoE Midspans are fully compatible with the IEEE 802.3af standard, providing safe power to remote terminals, both to standard and pre-standard ones.

- **Easy to Install** – The PowerDsine 6548 is a plug-and-play product, which minimizes the disruption to the working place. Once turned on, it automatically detects all PoE terminals and supplies power over the Ethernet infrastructure.

- **Concise LED Displays** – The PowerDsine 6548 has a per-port LED indication. It offers real-time network monitoring through the front panel and indicates normal, overload or short-circuit conditions.

- **Power Management** – PowerDsine 6548 PoE Midspans have an advanced power management algorithm which controls the output power per port in the event of limited available power, and saves costs by improving the cooling and UPS sizing considerations at the communication room.

- **Remote Management** – The PowerDsine 6548 offers new advanced remote management capabilities including power enable/disable per-port. It has a built-in web server to enable remote monitoring over a local area network using web browser.

Ordering Information

Order Number	Description
48 Port Power over Ethernet Midspan	
PD-6548/AC	AC input
PD-6548/AC/M	AC input, Remote Management

Specifications

No. of Ports	48
Data Rates	10/100 Mbps
PoE Output	Pin Assignment and Polarity: 4/5 (+),7/8 (–) Output Power Voltage: 52.5 Vdc User Port Power: 15.4W min. (power management) Aggregate Power: 400W
Input Power Requirements	AC Input Voltage: 90 to 264 Vac AC Input Current: 5.5 A @ 110 Vac, 2.75 A @ 240 Vac AC Frequency: 47 to 63 Hz
Dimensions	(H)1.73 in x (W)17.24 in x (D)17.72 in (H)4.4 cm x (W)43.8 cm x (D)30.2 cm
Weight	7.5 kg
Management - Optional	SNMP V3 MIB support Built-in web server DHCP support
Indicators	System Indicator: AC Power (Green/Orange) Per port LED Indicator: Channel Power (Green)
Connectors	Input/Output: 8-Pin Shielded RJ-45, EIA 568A and 568B Management console port: 8-pin RJ-45 connector (RJ-45-to-DB9 cable adapter for PC connections is included in each 6548/AC/M unit)
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	300 BTU/hrs
Regulatory Compliance	CE
Electromagnetic Emission & Immunity	FCC Part 15, Class B with FTP cabling EN55022 (CISPR 22) class B with FTP cabling EN55024 (CISPR 24) VCCI
Safety Approval	UL/cUL per EN 60950 GS Mark per EN 60950