Power over Ethernet Systems

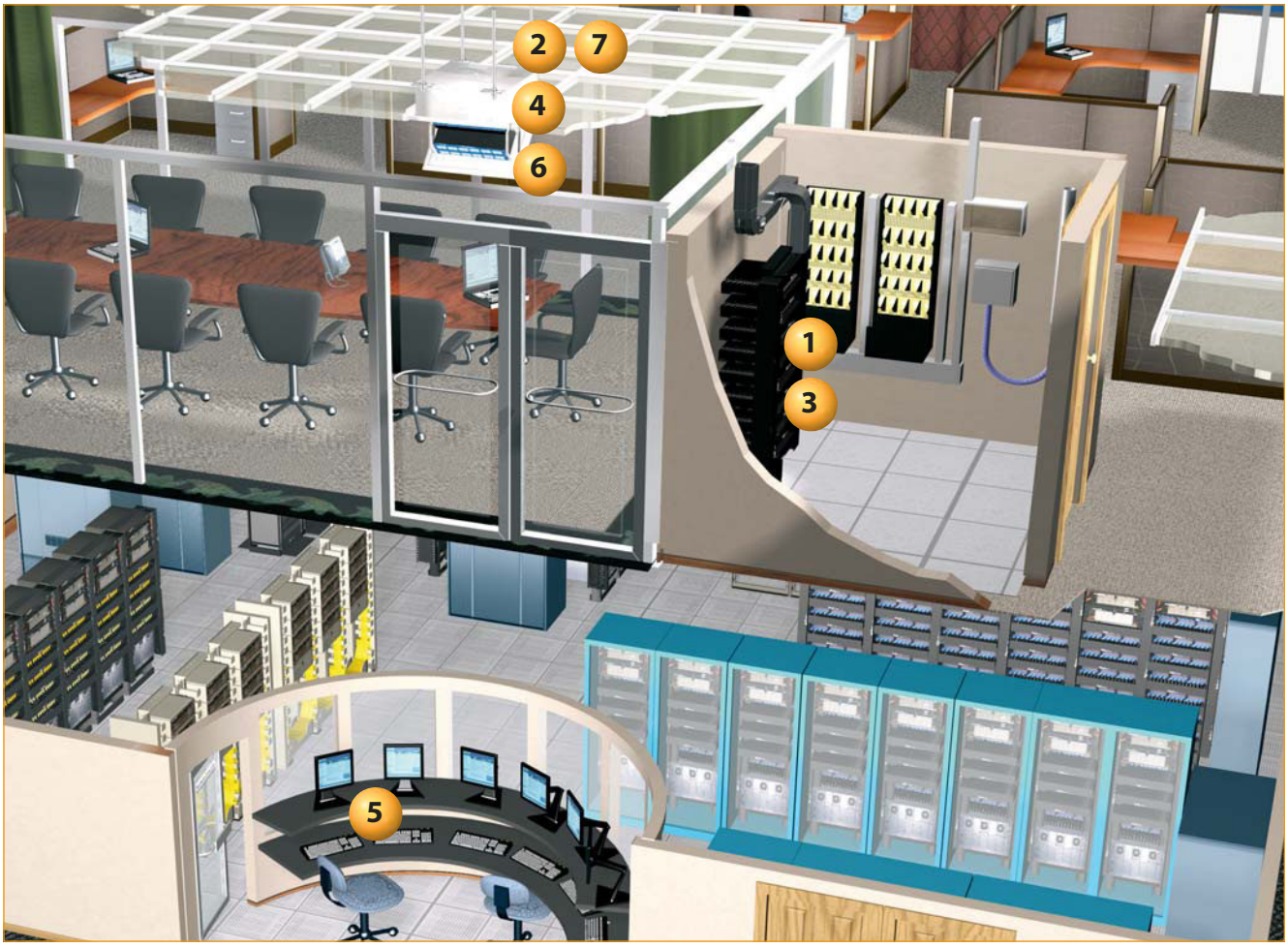
As organizations continue to deploy emerging applications such as IP surveillance cameras, IP telephony, wireless access points (WAPs), and intelligent buildings, it is increasingly necessary to seek out cost savings, power management, and network reliability to support these for growing network infrastructures. Utilizing new or existing Ethernet wiring systems to send both data and power together, Power over Ethernet (PoE) offers a cost-effective advancement to resolve these challenges while expanding network infrastructure capabilities.

As a leading provider of PoE technology, Panduit® DPoE™ Power over Ethernet Systems utilize power patch panels in various port and data capability designs, a compact power midspan with 2X power (up to 32 watts), and power systems with low heat dissipation to enable greater network design modularity, simplify installations, and lower total cost of ownership.

- **Space-saving designs allow for deployment in space-constrained locations**
- **Enable network modularity and scalability to grow a network as needed**
- **Provide redundant powering to reduce risk and diminish downtime**
- **Deliver low heat dissipation to improve power and cooling costs**
- **Provide visibility of all powered ports and allows multiple site management with a single graphical user interface**

Panduit® DPoE™ Power over Ethernet Systems utilize DPoE™ Patch Panels in various port and data capability designs and DPoE™ Compact 8 Midspan with 2X power (up to 32 watts) for increased capabilities. The DPoE™ Power System provides high efficiency power supplies that can be hot-swapped for field upgrades or for replacement without taking the entire system down. The DPoE™ Element Manager Software automatically locates and provides visibility of all powered ports across the network and allows multiple site management with a single graphical user interface. As a result, Panduit® DPoE™ Power over Ethernet Systems take an innovative approach toward providing scalable and ample power injection for maximum reliability and lower total cost of ownership.

Power over Ethernet Systems Roadmap



1 DPoE™ Power Patch Panel (page D.3)

2 DPoE™ Power Midspan (page D.4)

3 DPoE™ Power System (page D.5)

4 DPoE™ Power Midspan Accessories (page D.4)

5 DPoE™ Element Manager

6 DPoE™ Power Supply (page D.5)

7 PanZone® In-Ceiling Enclosures (page E.3)

DPoE™ Power Patch Panel

- Deliver reliable, cost-effective Power over Ethernet for permanent installations
- Combine patching and power in a single device, occupying only one rack space
- Support 15.4 watts to every port
- Fully compliant with IEEE 802.3af standards
- Eliminate power budget load balancing
- Offer RJ45 terminations with LEDs on front of panels to indicate port powering or port status and 110 punchdown terminations on rear of panel for networking management connections
- Dissipate significantly less heat than comparable network equipment
- Require 48V DC power supply

ULTIMATE ID

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
DPOE24U1XG	24-port UTP 1 GbE 10/100/1000 patch panel supporting IEEE 802.3af-2003 and legacy PoE power protocols. Includes Element Manager software CD, rack mount screws, grounding strap, and lug.	1	1

^One rack space = 1.75" (44.45mm).
Strain relief bars for mounting can be found on page B.70.
Power supply and/or power system sold separately.

Component Labels for DPoE™ Power Patch Panel

Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Panel Part Number	Laser/Ink Jet Desktop Printer Label	TDP43ME Thermal Transfer Desktop Printer Label	PanTher™ LS8E Hand-Held Printer Label	Cougar™ LS9 Hand-Held Printer Label
DPOE24U1XG	UILJ6	—	UILS8BW	UILS8BW

For complete Ultimate ID® Labeling Solutions and product information, reference charts on pages O.11 and O.19.

DPoE™ Power Midspan

- Delivers reliable, cost-effective Power over Ethernet to new or existing networks
- Supports up to 32 watts (2X Power) to every port
- Fully compliant with IEEE 802.3af standards
- Compact, modular design allows up to three units to fit horizontally across one rack space
- Dissipates significantly less heat than comparable network equipment
- Scalable to grow network as needed
- Requires 48V DC power supply

ULTIMATE ID

DPOE8S2XG

DPOE8KIT

DPOEWM8B

DPOEPL8BU

DPOESHELF

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
DPOE8S2XG	8-port STP 10/100/1000 midspan supporting IEEE 802.3af-2003 and legacy PoE protocols. Option for table top mounting, wall bracket, or 1 RU shelf. Includes Element Manager software CD.	1	1
DPOE8KIT	Compact 8 midspan kit includes individual unit, 120 watt power supply, and 15 A conductor power cord.	1	1
DPOEWM8B	Wall mount bracket for DPOE8S2XG.	1	1
DPOEPL8BU	8-port passive patch panel module.	1	1
DPOESHELF	1 RU shelf for DPOE8S2XG.	1	1

^One rack space = 1.75" (44.45mm).
Power supply and/or power system sold separately.

Component Labels for DPoE™ Power Midspan

Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Panel Part Number	Laser/Ink Jet Desktop Printer Label	TDP43ME Thermal Transfer Desktop Printer Label	PanTher™ LS8E Hand-Held Printer Label	Cougar™ LS9 Hand-Held Printer Label
DPOE8S2XG	**UILJ4**	—	**UILS8BW**	**UILS8BW**
DPOEPL8BU	**UILJ4**	—	**UILS8BW**	**UILS8BW**

For complete Ultimate ID® Labeling Solutions and product information, reference charts on pages O.11 and O.19.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

DPoE™ Power Supply

- Provides up to 120 watts of regulated power
- Offers flexible placement inside of rack
- Removes AC to DC power conversion heat from power patch panels due to isolation
- LED indicates when power is being supplied to the panel

DPOEPWRB120Y

Part Number	Part Description	Std. Pkg. Qty.
DPOEPWRB120Y	120 watt power supply. Suitable for single unit power installations with low power needs or a mixture of active and passive devices.	1
DPOEPWRB120Y-J	120 watt power supply for use in Japan. Suitable for single unit power installations with low power needs or a mixture of active and passive devices. Kit includes Japan power supply and cord.	1

Power supply requires proper A/C country-specific power cord (CORD-A for Australia, CORD-E for Europe, CORD-S15 for North America, or CORD-U for United Kingdom), must be ordered separately. Japan Power Supply (DPOEPWRB120Y-J) includes CORD-J15 for use in Japan.

DPoE™ Power System

- Offers 48 volt DC power that is scalable from 1,250 watts to 3,750 watts
- Utilizes high efficiency power supplies that can be hot swapped for upgrades or replacement without taking the entire system down
- Provides consistent powering across a wide range of devices and application needs
- Offers a low profile, one rack space design
- Emits 35% less heat compared to other power supply systems
- Increases reliability with problem fault isolation

DPOEPWRCU

DPOEPWRR1250

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
DPOEPWRCU	Power system chassis. Utilized for supplying power to single and multiple power patch panels when equipped with the appropriate DPoE™ Power Rectifiers.	1	1
DPOEPWRR1250	1250 watt power rectifier supplies power for multiple power patch panels. A combination of three rectifiers will support up to fourteen panels. Used with DPOEPWRCU.	—	1

^One rack space = 1.75" (44.45mm).

Power system chassis requires proper A/C country-specific power cord, (CORD-A for Australia, CORD-E for Europe, CORD-S15 for United States, CORD-J15 for Japan, or CORD-U for United Kingdom), must be ordered separately.