Power over Ethernet Active Splitter Series
Converts standard 48V to 5V-12V-18V to match terminal specifications

PowerDsine's active splitters enable data terminals that were not originally designed to accept power from the Ethernet, to be powered by standard Power over Ethernet switches and midspans.

Power over Ethernet (PoE) technology enables IP telephones, wireless LAN access points, security network cameras and other types of data terminals to receive power, along with data, over standard Ethernet cables upon which data and power flow in parallel.
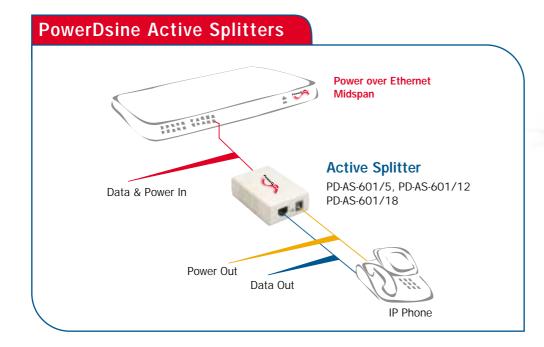
Although a standard defining PoE already exists (IEEE 802.3af), many contemporary terminals are designed and deployed without the ability to accept power via their LAN input – a basic requirement of the standard. Such devices can only accept power through their DC jack while their RJ45 input accepts only data. Moreover, such devices might only accept voltage levels lower than the standard's 48 volts dc.

Using the active splitter, these terminals immediately become PoE–ready without any modification required on their side.

The splitter is being identified as a powered device (PD) in front of the switch (or midspan) 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 (18V or 12V or 5V).

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.

PowerDsine Active Splitters

Power over Ethernet Midspan

Data & Power In

Active Splitter
PD-AS-601/5, PD-AS-601/12
PD-AS-601/18

Power Out

Data Out

IP Phone

Microsemi.

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Specifications

Connectors

PD-AS-601/5, PD-AS-601/12:
2 x RJ-45, shielded, EIA 568A and 568B
DC Jack O.D x I.D = 5.5 x 2.5¢ mm
DC Jack O.D x I.D = 5.5 x 3.3¢ x 1 mm
PD-AS-601/18:
DC Jack O.D x I.D = 5.5 x 2.1¢ mm x 13 mm
DC Jack O.D x I.D = 5.5 x 2.5¢ mm x 13 mm

Ethernet Support 10/100-Base-T

Electrical
Pin Assignment & Polarity: 3/6 (+),1/2 (-) or
4/5 (+),7/8 (-)
Voltage: 48 Vdc
Input power: 13.5W max
Output power: 10W max
Output current: 2A@5V; 0.8A@12V

Dimensions

PD-AS-601/5, PD-AS-601/12:
Height: 24.7 mm (1 in)
Width: 55 mm (2.2 in)
Depth: 80.8 mm (3.2 in)
Weight: 100 gr (0.2205 lbs)
PD-AS-601/18:
Length: 120 mm (4.8 in)
Width: 75 mm (3 in)
Height: 33 mm (1.26 in)
Weight: 220 gr (0.485 lbs), with DC cable

Indicators Power Indicator: Green LED

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

Emissions & Immunity
FCC Part 15 Class A
EN55022 (CISPR 22) Class A
EN55024 (CISPR 24)
CE

Warranty 1 Year

Service Contacts
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International: Tel: +972-9-7755123
E-Mail: customer.care@powerdsine.com

For a list of additional terminals compatible with
PowerDsine PS-AS-601 splitters, please visit:
http://www.powerdsine.com/Products/SelectionGuide/

Ordering Information

P/N	Description	Supported Terminals
PD-AS-601/5	5V Active Splitter	Axis 205/6/7 IP cameras
PD-AS-601/12	12V Active Splitter	Axis, Sony, Panasonic, Canon, Bosch, Philips, JVC IP cameras
PD-AS-601/18	18V Active Splitter	Cisco Aironet 1300, Symbol

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