

# PD-951 Splitter

Enables Powering 12V and 24V Terminals via 4-pairs PD PoE

## Summary

Microchip's PD-AS-951 high-power active splitters enable data terminals that were not originally designed to accept power from the Ethernet, to be powered by Power over Ethernet midspans. The PDAS- 951 High Power splitter (user selectable 12V or 24V) can power devices such as WiMAX CPEs, small WiMAX base-stations, 802.11n access-points, thin-clients, Pan/Tilt/Zoom (PTZ) IP cameras, video-phones and more.



## High Power 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-951 high power splitter, these terminals immediately become PoE-ready without any modification required on their side.

The splitter is identified as a Powered Device (PD) in front of the powering 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 (12V or 24V).

## PoE 951 Splitter Specifications

<b>Connectors</b>	2 × RJ-45, shielded, EIA 568A and 568B
	DC Jacks On unit: O.D × I.D = 2.5 × 6.4 mm
	Ext. Cable #1: O.D × I.D = 5.5 × 2.5 mm
	Ext. Cable #2: O.D × I.D = 3.4 × 1.4 mm
<b>Data Rate</b>	10/100/1000
<b>Electrical</b>	Pin Assignment & Polarity: 3/6 (+), 1/2 (-) or 4/5 (+), 7/8 (-)
	Input voltage: 44 to 57 Vdc
	Input power: 70W max
	Output power: 54W max
<b>Dimensions &amp; Weight</b>	Output Current: 5A @ 12V; 2.5A @ 24V
	38 mm (H) × 130 mm (W) × 73 mm (D) (2.2 in × 3.2 in × 1 in)
<b>Indicators</b>	285 gram (0.63 lbs)
	Output Power Indicators: Green LED (4-pairs), Yellow LED (2-pairs)
<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>	38 BTU/Hr
<b>Reliability MTBF</b>	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	Name
PD-AS-951/12 - 24	12V to 24V 60W High Power Splitter with DC connector
PD-AS-951/12 - 24/C	12V to 24V 60W High Power Splitter with DC cable

### For More Information

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



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