

# PD-9501GR Midspan

Single-port, 60W Gigabit Midspan, 4-Pairs, 802.3at Compliant



## Summary

Microchip's PD-9501GR is a single port solution for remote powering of current as well as emerging high power applications. The PD-9501GR is designed specifically to power IEEE 802.11n and IEEE 802.3at access points, pan-tilt-zoom (PTZ) and dome cameras, IP videophones, thin clients and other high power Ethernet end terminals with 60W of power, and is also backward compatible and safe to use with any IEEE 802.3af terminal such as VoIP phones, IP cameras and wireless LAN access points. It can power both existing 10/100Base-T devices and emerging wireless Gigabit devices such as Wi-MAX and wireless IEEE 802.11n access points. The PD-9501GR provides power on all 4-pairs while being backwards compatible to 802.3af and 802.3at powered devices.

## Features

- IEEE 802.3at compliant with 2-event classification
- IEEE 802.3af backward compatible
- Output power of 60W over 4-pairs
- Supports 10/100/1000Base-T applications
- Plug-and-play installation
- Safe: low power devices receive only the power they need
- Automatic detection and protection of non-standard Ethernet terminals
- Compact design fits easily in WLAN access point and IP camera installations

## 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: Data Pairs 1/2 (-) and 3/6 (+) Spare Pairs 7/8 (-) and 4/5 (+) Output Voltage: 55 Vdc nominal User Port Power: 60W over 4-pairs
<b>Input Power Requirements</b>	AC Input Voltage: 100 to 240 Vac AC Input Current: 1.5A AC Frequency: 50/60 Hz
<b>Dimensions</b>	62 mm (W) × 38 mm (H) × 151 mm (L) 2.44 in. × 1.5 in. × 5.94 in
<b>Net Weight</b>	0.71 lbs (320g)
<b>Indicators</b>	AC Power: Yellow Channel Power Indicator: Green
<b>Connectors</b>	Shielded RJ-45, EIA 568A and 568B
<b>Environmental Conditions</b>	Operating Ambient Temperature: 14° to 113°F (-10°C to +45°C) @60W 14° to 131°F (-10°C to +55°C) @30W Operating Humidity: Maximum 90%, Non-Condensing Storage Temperature: -4° to +158°F (-20° to +70°C) Storage Humidity: Maximum 95%, Non-Condensing
<b>Hazardous Substance</b>	CE, WEEE
<b>Warranty</b>	1 year
<b>Reliability</b>	MTBF: 240,000 hrs. @25°C
<b>Thermal Rating</b>	30 BTU/Hr
<b>Regulatory Compliance</b>	IEEE 802.3at
<b>Electromagnetic Emission &amp; Immunity</b>	FCC Part 15, Class B EN 55032 Class B EN55035, VCCI
<b>Safety</b>	UL/IEC/EN 62368-1 Please contact Microchip for a complete list of certifications.

## Technical Support

For technical support, please visit the Microchip Technical Support Portal at [www.microchip.com/support](http://www.microchip.com/support).

## Ordering Information

Part Number	Name	Description
PD-9501GR/AC	PD-9501GR	1-port, IEEE 802.3at 4-Pairs, Gigabit Midspan

Contact Microchip for other options

## About Microchip mPoE



Microchip multi-Power over Ethernet (mPoE) is a technology that powers any wired network device seamlessly and efficiently, making it the ideal solution for Ethernet-based applications. Leveraging a uniquely designed algorithm, this technology solves interoperability issues between different PoE standards and legacy solutions to provide an international network power standard. As a pioneer in PoE technology, we offer a comprehensive end-to-end portfolio of PoE solutions comprised of PoE ICs and PoE systems (midspans/injectors and switches).