

## PD-9001GR/SP

## Single-Port, High-Power Gigabit Midspan, 802.3at Compliant with Surge Protection



## Summary

Microchip's PD-9001GR/SP is a single-port, high-power solution for remote powering of current and emerging high-power applications. The PD-9001GR/SP provides surge protection functionality optimal for the installation of outdoor PDs. Generating up to 30W, the PD-9001GR/SP enables remote power for a new range of applications including 802.11n access points, Pan-Tilt-Zoom (PTZ) cameras and video phones. It complies to IEEE 802.3at PoE standard and is backward compatible to IEEE 802.3af. It can power both existing 10/100Base-T network devices and emerging wireless 1000Base-T devices such as WiMAX and wireless IEEE 802.11n access points.

## Key Features

- IEEE 802.3at compliant with 2-event classification
  - IEEE 802.3af backward compatible
  - Output power of 30W is guaranteed
  - Supports 10/100/1000Base-T applications
  - Compatible with IEEE 802.3af devices and pre-standard devices
  - Safe: low-power devices receive only the power they need
  - Automatic detection and protection of non-standard Ethernet terminals
  - IP camera installations

## Specifications

Feature	Description
<b>Number of Ports</b>	1
<b>Data Rate</b>	10/100/1000 Mbps
<b>Input Power Requirement</b>	AC Input Voltage: 100 to 240 VAC AC Input Current: 1.2 A AC Frequency: 50/60 Hz
<b>Output Power</b>	30W
<b>Power over Ethernet Output</b>	4/5 (+), 7/8 (-) Nominal Output Voltage: 54 VDC
<b>Dimensions</b>	L x W x H 151 mm x 62 mm x 38 mm 5.94 in x 2.44 in x 1.5 in
<b>Net Weight</b>	400g
<b>Connectors</b>	Shielded RJ-45, EIA 568A and 568B
<b>Indicators</b>	System Indicator: AC Power - Yellow User Indicator: Channel Power - Green
<b>Environmental Conditions</b>	Operating Ambient Temperature @30W: -4°F to +104°F (-20°C to +40°C)
	Operating Ambient Temperature @22.5W: -4°F to +131°F (-20°C to +55°C)
	Operating Humidity: Maximum 90%, Non Condensing
	Storage Temperature: -4°F to +158°F (-20°C to +70°C)
	Storage Humidity: Maximum 95%, Non-condensing
<b>Operating Altitude:</b>	-1000 to 10,000 ft. (-304.8 to 3048 m)
<b>Hazardous Substances</b>	CE, WEEE
<b>Warranty</b>	1 year
<b>Reliability</b>	MTBF: 240,000 hrs @ 25C
<b>Thermal Rating</b>	25 BTU/hr
<b>Regulatory Compliance</b>	IEEE 802.3at
<b>Electromagnetic Emission and Immunity</b>	FCC Part 15 Class B EN 55032 Class B EN55035 VCCI
<b>Safety</b>	UL/IEC/EN 62368-1 Please consult Microchip for a complete list of certifications
<b>Surge Protection</b>	EN 61000-4-5 (10/700 μsec, 4 KV) IEC-61643-21 GR-1089-CORE Issue 4 ITU-T K.45



## Technical Support

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

## Ordering Information

Part Number	Name	Description
<b>PD-9001GR/SP/AC-xx</b> PD-9001GR/SP/AC-AU Australia Power Cord PD-9001GR/SP/AC-EU European Union Power Cord PD-9001GR/SP/AC-JP Japan Power Cord PD-9001GR/SP/AC-UK United Kingdom Power Cord PD-9001GR/SP/AC-US United States Power Cord	PD-9001GR/SP	1-port IEEE 802.3at Gigabit Midspan with Surge Protection

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).