

# PD-9501GC-SP/AC

Single-Port, 60W IEEE® 802.3bt Power over Ethernet (PoE)  
Midspan With Surge Protection



## Summary

Our PD-9501GC-SP/AC is a single-port, high-power solution to remotely power currents and emerging high-power applications. The PD-9501GC-SP/AC provides surge protection functionality that is optimal for the installation of outdoor PDs. Generating up to 60W, the PD-9501GC-SP/AC 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 the IEEE 802.3bt PoE standard and is backward compatible to IEEE 802.3af/at. It can power both existing 10/100 Base-T network devices and emerging wireless 1000 Base-T devices such as WiMAX and wireless IEEE 802.11n access points.

## Features

- IEEE 802.3bt Type 3 compliant
- IEEE 802.3af/at backward compatible
- Output power of 60W over four pairs
- Supports 10/100/1000Base-T applications
- Plug-and-play installation
- Low power devices receive only the power they need
- Automatic detection and protection of non-standard Ethernet terminals

Feature	Description
Number of Ports	1
Data Rate	10/100/1000 Mbps
Input Power Requirement	AC Input Voltage: 100 to 240 V <sub>AC</sub> AC Input Current: 1.5A AC Frequency: 50/60 Hz
Output Power	60W Over Four Pairs
PoE Output	Data Pairs 1/2 (-), 3/6 (+) Spare Pairs 7/8 (-), 4/5 (+) Output Voltage: 55 V <sub>DC</sub> Nominal
Dimensions	L x W x H 151 mm x 62 mm x 38 mm 5.94 in. x 2.44 in. x 1.5 in.
Weight	340g (0.75 lbs)
Connectors	Shielded RJ-45, EIA 568A and 568B
Indicators	System Indicator: AC Power—Yellow Channel Power Indicator: Two pairs—Blue Four pairs—Green
Environmental Conditions	Operating Ambient Temperature: 14°F to 104°F (-10°C to +40°C) @ 60W 14°F to 131°F (-10°C to +55°C) @ 30W Operating Humidity: 90% Maximum Non-Condensing Storage Temperature: -4°F to +158°F (-20°C to +70°C) Storage Humidity: 95% Maximum, Non-Condensing Operating Altitude: -1000 to 10,000 ft. (-304.8 to 3048 m)
Hazardous Substances	CE, WEEE
Warranty	1 year
Reliability	MTBF: 150,000 hrs. @ 25°C
Thermal Rating	25 BTU/Hr
Regulatory Compliance	IEEE® 802.3bt
Electromagnetic Emission and Immunity	FCC Part 15, Class B EN 55032 Class B EN 55035 VCCI
Safety	UL/IEC/EN 62368-1 Please contact Microchip for a complete list of certifications.
Surge Protection	EN 61000-4-5 (10/700 µsec, 4 kV) IEC 61643-21 (1.2/50 µsec, 10 kV) GR-1089-CORE Issue 6 ITU-T K.45

## 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
<b>PD-9501GC-SP/AC-XX</b> PD-9501GC-SP/AC-EU European Union Power Cord PD-9501GC-SP/AC-JP Japan Power Cord PD-9501GC-SP/AC-UK United Kingdom Power Cord PD-9501GC-SP/AC-US United States Power Cord	PD-9501GC-SP	Single-Port, 60W IEEE® 802.3bt PoE 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).