

# PD-9001GR/SP Midspan

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

### Key Features

- IEEE 802.3at compliant with 2-event classification
- IEEE 802.3af backward compatible
- Output power of 30 W is guaranteed
- Supports 10/100/1000 Base-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
- Compact design fits easily in WLAN Access Point and IP Cameras installations

### Overview

Microsemi's PD-9001GR/SP is a single port, high-power solution for remote powering of current and emerging high power applications. The PD-9501GR/SP provides Surge Protection functionality optimal for the installation of outdoor PDs. Generating up to 30 W, 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 10/100 Base-T network devices and emerging wireless 1000 Base-T devices such as WiMAX and wireless IEEE 802.11n access points.



Figure 1: PD-9001GR/SP

### Specifications

Feature	Description
No. of Ports	1
Data Rates	10/100/1000 Mbps
Power over Ethernet Output	Pin Assignment and Polarity: 4/5 (+), 7/8 (-) Output Power Voltage: 55 Vdc
User Port Power	30 Watts (Guaranteed)
Input Power Requirements	AC Input Voltage: 100 to 240 Vac AC Input Current: 0.8 A @ 100-240 Vac AC Frequency: 50 to 60 Hz
Dimensions	62 mm (W) x 38 mm (H) x 151 mm (L) 2.44 in. x 1.5 in. x 5.94 in
Weight	0.75 lbs (340 g)
Indicators	AC Power (Yellow) Channel Power (Green)
Connectors	Shielded RJ-45, EIA 568 A and 568 B
Environmental Conditions	Operating Ambient Temperature: -4° to 104° F (-10 to 50° C) @ 30 W
	Operating Humidity: Maximum 90%, Non-condensing
	Storage Temperature: -4° to 158° F (-20° to 70° C)
	Storage Humidity: Maximum 95%, Non-condensing
Reliability	MTBF: 240,000 hrs. @ 25° C
Thermal Rating	25 BTU/Hr (@ 240 VAC)
Warranty	1-year
Regulatory Compliance	IEEE 802.3at (PoE), RoHS Compliant, WEEE Compliant, CE
Electromagnetic Emission & Immunity	FCC Part 15, Class B EN 55022 Class B (Emissions) EN 55024 (Immunity), VCCI
Surge Protection	Surge Protection: EN 61000-4-5 (10/700 µsec, 4 KV) Meets Surge Protection as specified in: IEC-61643-21 GR-1089-CORE lightning protection demands ITU-T K.45 International standard
Safety Approvals	UL/cUL Per IEC 60950-1 GS Mark Per IEC 60950-1

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### PD-9001 GR/SP Performance



### Ordering Information

Part Number	Name	Description
PD-9001GR/SP/AC	Microsemi PD-9001GR/SP/AC	1-port IEEE 802.3at Gigabit Midspan with Surge Protection

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