

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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