PD-9501GR/SP Midspan

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

Key Features

- IEEE 802.3at compliant with 2-event classification
- IEEE 802.3af backward compatible
- Output power of 60W over 4-pairs is guaranteed
- 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

Overview

Microsemi's PD-9501GR/SP is a single port solution for remote powering of current as well as emerging high power applications. The PD-9501GR/SP provides Surge Protection functionality optimal for the installation of outdoor PDs. The PD-9501GR/SP 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 1000Base-T devices such as Wi-MAX and wireless IEEE 802.11n access points. The PD-9501GR/SP provides power on all 4-pairs while being backwards compatible to 802.3af and 802.3at powered devices.

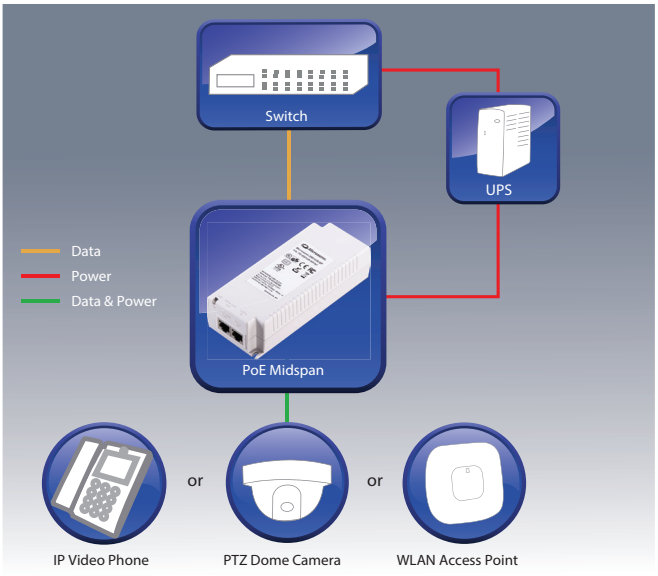

Figure 1: PD-9501GR/SP

Specifications

Feature	Description
No. of Ports	1
Data Rates	10/100/1000 Mbps
Power over Ethernet Output	Pin Assignment and Polarity: Data Pairs 1/2 (-) and 3/6 (+) Spare Pairs 7/8 (-) and 4/5 (+) Output Power Voltage: 55 VDC User Port Power: 60 W over 4-pairs (Guaranteed)
Input Power Requirements	AC Input Voltage: 100 to 240 VAC AC Input Current: 1.5 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	Bare unit: 0.75 lbs (340 g)
Indicators	AC Power (Yellow)
	Channel Power (Green)
Connectors	Shielded RJ-45, EIA 568A and 568B
Environmental Conditions	Operating Ambient Temperature: 14º to 104º F (-10º C to 40º C) @ 60 W 14º to 131º F (-10º C to 50º C) @ 30 W
	Operating Humidity: Maximum 90%, Non-condensing
	Storage Temperature: –4º to 158ºF (–20º to 70º C)
	Storage Humidity: Maximum 95%, Non-condensing
Reliability	MTBF: 240, 000 hrs. @ 25º C
Thermal Rating	30 BTU/Hr (@ 100 VAC)
Warranty	1-year
Regulatory	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	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 EN 60950-1 GS Mark Per EN 60950-1

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Performance Data

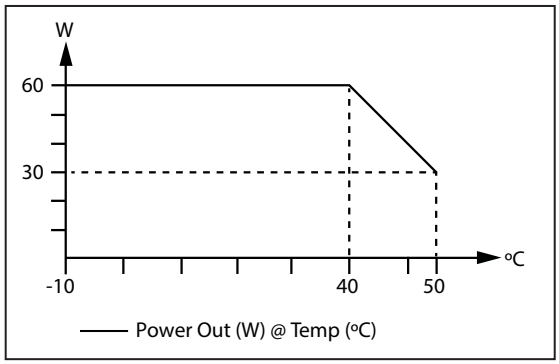

Figure 2: Performance Data

Ordering Information

Part Number	Name	Description
PD-9501GR/SP	Microsemi PD-9501GR/SP	1-port, IEEE 802.3at 4-Pairs, Gigabit Midspan with surge protection

Microsemi Corporation (MSCC) offers a comprehensive portfolio of semiconductor and system solutions for communications, defense & security, aerospace and industrial markets. Products include high-performance and radiation-hardened analog mixed-signal integrated circuits, FPGAs, SoCs and ASICs; power management products; timing and synchronization devices and precise time solutions, setting the world's standard for time; voice processing devices; RF solutions; discrete components; security technologies and scalable anti-tamper products; Ethernet solutions; Power-over-Ethernet ICs and midspans; as well as custom design capabilities and services. Microsemi is headquartered in Aliso Viejo, Calif., and has approximately 3,600 employees globally. Learn more at www.microsemi.com.

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