

PD-9001GR

Single-port Gigabit PoE Midspan, 802.3at Compliant



Overview

Microsemi's PD-9001GR is a single port, high-power solution for remote powering of current and emerging high power applications. Generating up to 30W, the PD-9001GR 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 IEEE802.3af. 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.

PD-9001GR 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
- 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

Specifications

| Feature | Description |
|--------------------------------------|--|
| No. of Ports | 1 |
| Data Rates | 10/100/1000 Mbps |
| Power over Ethernet Output | Pin Assignment and Polarity: Spare Pairs 7/8 (-) and 4/5 (+) Output Power Voltage: 55 VDC User Port Power: 30W (Guaranteed) |
| Input Power Requirements | AC Input Voltage: 100 to 240Vac (±10%) AC Input Current: 0.67A @ 100-240Vac AC Frequency: 50 to 60Hz |
| Dimensions | 51.8mm (W) x 34.8mm (H) x 160.5mm (L) ±0.5mm 2.04 in. x 1.37 in. x 6.31 in ±0.02 in |
| Weight | .44 lbs (200g) |
| Indicators | User Indicator: Channel Power (Green) |
| Connectors | Shielded RJ-45, EIA 568A and 568B |
| Environmental Conditions | Operating Ambient Temperature: Conditions -4°F to 104°F (-20 °C to 40°C) @30W -4°F to 131°F (-20 °C to 55°C) @22.5W |
| Environmental Conditions Reliability | Operating Humidity: Maximum 90%, Non-condensing |
| | Storage Temperature: -4° to 158°F (-20° to 70°C) |
| | Storage Humidity: Maximum 95%, Non-condensing |
| | Operating Altitude: -1000 to 10,000 ft. (-304.8 to 3048 m) |
| | MTBF: 100,000 hrs. @ 25°C |
| Thermal Rating | 20 BTU/Hr (@240VAC) |
| Warranty | 1-year |
| Regulatory Compliance | IEEE 802.3af (PoE), RoHS Compliant, WEEE Compliant, CE |
| Electromagnetic Emission & Immunity | FCC Part 15, Class B EN 55032 Class B (Emissions) EN 55024 (Immunity) VCCI |
| Safety | UL/EN/IEC 60950-1 (Ed.2) |



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Ordering Information

| Microsemi p/n | Name | Description |
|-----------------|---------------------|---|
| PD-9001GR/AT/AC | Microsemi PD-9001GR | Single-port, Gigabit PoE Midspan, 802.3at Compliant |

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Microsemi Corporate Headquarters
One Enterprise, Aliso Viejo, CA 92656 USA
Within the USA: +1 (800) 713-4113
Outside the USA: +1 (949) 380-6100
Sales: +1 (949) 380-6136
Fax: +1 (949) 215-4996
email: sales.support@microsemi.com
www.microsemi.com

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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А