

# PD-9001GR

Single-port Gigabit PoE Midspan, 802.3at Compliant



## Overview

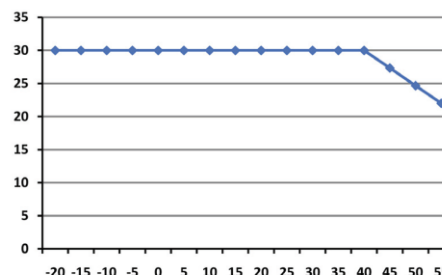
Microsemi's PD-9001GR is a single port, high-power solution for remote powering of current and emerging high power applications. Generating up to 30W, the PD-9001GR enables remote power for a new range of applications including 802.11n Access Points, pan-tilt-zoom (PTZ) cameras and video-phones. It complies 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:<br>Spare Pairs 7/8 (-) and 4/5 (+)<br>Output Power Voltage: 55 VDC<br>User Port Power: 30W (Guaranteed) |
| Input Power Requirements             | AC Input Voltage: 100 to 240Vac (±10%)<br>AC Input Current: 0.67A @ 100-240Vac<br>AC Frequency: 50 to 60Hz                           |
| Dimensions                           | 51.8mm (W) x 34.8mm (H) x 160.5mm (L) ±0.5mm<br>2.04 in. x 1.37 in. x 6.31 in ±0.02 in                                               |
| Weight                               | .44 lbs (200g)                                                                                                                       |
| Indicators                           | User Indicator:<br>Channel Power (Green)                                                                                             |
| Connectors                           | Shielded RJ-45, EIA 568A and 568B                                                                                                    |
| Environmental Conditions             | Operating Ambient Temperature:<br>Conditions<br>-4°F to 104°F (-20 °C to 40°C) @30W<br>-4°F to 131°F (-20 °C to 55°C) @22.5W         |
| Environmental Conditions Reliability | Operating Humidity:<br>Maximum 90%, Non-condensing                                                                                   |
|                                      | Storage Temperature:<br>-4° to 158°F (-20° to 70°C)                                                                                  |
|                                      | Storage Humidity:<br>Maximum 95%, Non-condensing                                                                                     |
|                                      | Operating Altitude:<br>-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<br>EN 55032 Class B (Emissions)<br>EN 55024 (Immunity)<br>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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- Техническая поддержка проекта;
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