

# PD-9001GS

Single-Port Gigabit PoE Midspan, 802.3at Compliant



## Summary

Microchip's PD-9001GS is a single-port, high-power solution for remote powering of current and emerging high-power applications. Generating up to 30W, the PD-9001GS enables remote power for applications including 802.11n access points, Pan-Tilt-Zoom (PTZ) cameras and video phones. It complies to the IEEE 802.3at PoE standard and is backward compatible to IEEE 802.3af. 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.

## 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 Camera installations
- DOE Level VI and VII (latest draft) Efficiency compliant

## Specifications

| Feature                               | Description                                                                                                                                                                                                                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Ports                       | 1                                                                                                                                                                                                                                                                                                |
| Data Rate                             | 10/100/1000 Mbps                                                                                                                                                                                                                                                                                 |
| Input Power Requirement               | AC Input Voltage: 100 to 240 Vac<br>AC Input Current: 0.67A<br>AC Frequency: 50/60 Hz                                                                                                                                                                                                            |
| Output Power                          | 30W                                                                                                                                                                                                                                                                                              |
| Power over Ethernet Output            | 4/5 (+), 7/8 (-) Nominal Output Voltage: 55 Vdc                                                                                                                                                                                                                                                  |
| Dimensions                            | L × W × H<br>159 mm × 51.8 mm × 33.5 mm<br>6.26 in. × 2.04 in. × 1.32 in.                                                                                                                                                                                                                        |
| Net Weight                            | 204g                                                                                                                                                                                                                                                                                             |
| Connectors                            | Shielded RJ-45, EIA 568A and 568B                                                                                                                                                                                                                                                                |
| Indicators                            | AC power - Blinking Blue, Channel Power - Green                                                                                                                                                                                                                                                  |
| Environmental Conditions              | Operating Ambient Temperature @30W:<br>-14°F to +122°F (-10°C to +50°C)<br>Operating Humidity: Maximum 90%, Non Condensing<br>Storage Temperature: -4°F to +158°F (-20°C to +70°C)<br>Storage Humidity: Maximum 95%, Non-Condensing<br>Operating Altitude: -1000 to 10,000 ft. (-304.8 to 3048m) |
| Hazardous Substances                  | CE, WEEE                                                                                                                                                                                                                                                                                         |
| Warranty                              | 2 years                                                                                                                                                                                                                                                                                          |
| Reliability                           | MTBF: 200,000 hrs @ 25°C                                                                                                                                                                                                                                                                         |
| Thermal Rating                        | 20 BTU/hr                                                                                                                                                                                                                                                                                        |
| Regulatory Compliance                 | IEEE 802.3at                                                                                                                                                                                                                                                                                     |
| Electromagnetic Emission and Immunity | FCC Part 15, Class B<br>EN 55032 Class B (Emissions)<br>EN55035 (Immunity)<br>VCCI                                                                                                                                                                                                               |
| Safety                                | UL/IEC/EN 62368-1<br>Please contact Microchip for a complete list of certifications                                                                                                                                                                                                              |

## Technical Support

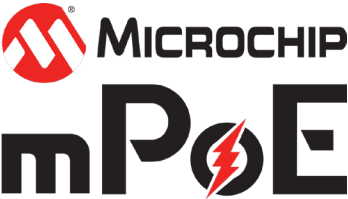
For technical support, please visit the Microchip Technical Support Portal at [www.microchip.com/support](http://www.microchip.com/support).

## Ordering Information

| Part Number                                                                                                                                                                                                                              | Name      | Description                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------|
| <b>PD-9001GS/AC-xx</b><br>PD-9001GS/AC-AU Australia Power Cord<br>PD-9001GS/AC-EU European Union Power Cord<br>PD-9001GS/AC-JP Japan Power Cord<br>PD-9001GS/AC-UK United Kingdom Power Cord<br>PD-9001GS/AC-US United States Power Cord | PD-9001GS | Single-port, Gigabit PoE Midspan, 802.3at Compliant |

Contact Microchip for other options

## About Microchip mPoE



Microchip multi-Power over Ethernet (mPoE) is a technology that powers any wired network device seamlessly and efficiently, making it the ideal solution for Ethernet-based applications. Leveraging a uniquely designed algorithm, this technology solves interoperability issues between different PoE standards and legacy solutions to provide an international network power standard. As a pioneer in PoE technology, we offer a comprehensive end-to-end portfolio of PoE solutions comprised of PoE ICs and PoE systems (midspans/injectors and switches).

