

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 AC Input Current: 0.67A 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 140 mm × 51.8 mm × 33.5 mm 5.51 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: 14°F to 122°F (-10°C to +50°C) @ 30W 14°F to 140°F (-10°C to +60°C) @ 15W Operating Humidity: Maximum 90%, Non Condensing Storage Temperature: -4°F to +158°F (-20°C to +70°C) Storage Humidity: Maximum 95%, Non-Condensing 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 EN 55032 Class B (Emissions) EN55035 (Immunity) VCCI |
| Safety | UL/IEC/EN 62368-1 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.

Ordering Information

| Part Number | Name | Description |
|--|-----------|---|
| PD-9001GS/AC-xx PD-9001GS/AC-AU Australia Power Cord PD-9001GS/AC-EU European Union Power Cord PD-9001GS/AC-JP Japan Power Cord PD-9001GS/AC-UK United Kingdom Power Cord 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).