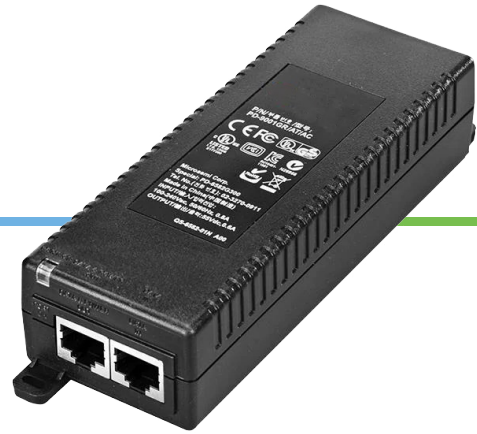# PD-9001GR

Single-Port Gigabit PoE Midspan, 802.3at Compliant

Summary

Microchip'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 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.

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 Camera installations

Specifications

Feature	Description
Number of Ports	1
Data Rate	10/100/1000 Mbps
Input Power Requirement	AC Input Voltage: 100 to 240 V_{AC} 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 V_{DC}
Dimensions	L x W x H 140 mm x 51.8 mm x 33.5 mm 5.5 in x 2.04 in x 1.32 in
Net Weight	380g
Connectors	Shielded RJ-45, EIA 568A and 568B
Indicators	User Indicator: AC power - Yellow, Channel Power - Green
Environmental Conditions	Operating Ambient Temperature @30W: –4ºF to +104ºF (–20ºC to +40ºC) Operating Ambient Temperature @22.5W: –4ºF to +131ºF (–20ºC to +55ºC) Operating Humidity: Maximum 90%, Non Condensing Storage Temperature: –4ºF to +158ºF (–20ºC to +70ºC) Storage Humidity: Maximum 95%, Non-Condensing Operating Altitue: –1000 to 10,000 ft. (–304.8 to 3048m)
Hazardous Substances	CE, WEEE
Warranty	1 year
Extended Warranty Available	No
Reliability	MTBF: 100,000 hrs @ 25ºC
Thermal Rating	20 BTU/hr
Regulatory Compliance	IEEE 802.3at
Electromagnetic Emission and Immunity	FCC Part 15, Class B EN 55032 Class B (Emissions) EN 55024 (Immunity) VCCI
Safety	UL/IEC/EN 62368-1 Please consult Microchip for a complete list of certifications

Technical Support

For technical support please visit the Microchip Technical Support Portal www.microchip.com/support.

Ordering Information

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

Contact Microchip for other options

About Microchip mPoE

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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).

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