PD-9001-10GC

Single-Port, 10 Gbps, IEEE 802.3at 30W, Indoor PoE Midspan



Summary

The Microchip PD-9001-10GC is a single-port, high-power solution for remote powering of current and emerging high-power indoor applications. Generating 30W, the PD-9001-10GC enables remote power for a new range of applications including wireless access points, Pan-Tilt-Zoom (PTZ) cameras and videophones.

It complies to IEEE 802.3at PoE standard and is back-ward compatible to IEEE 802.3af. It can power both existing 10/100/1000Base-T network devices and emerging wireless 10 Gbps devices such as wireless access points.

Features

- IEEE 802.3at compliant
- IEEE 802.3af backward compatible
- Guaranteed output power: 30W
- Supports 10/100/1000Base-T and 2.5/5/10 Gbps
- 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 installation

Specifications

Feature	Description
Number of Ports	1
Data Rate	10/100/1000 Mbps and 2.5/5/10 Gbps
Input Power Requirement	AC Input Voltage: 100 to 240 Vac AC Input Current: 0.67A AC Frequency: 50 to 60 Hz
Output Power	30W
Power over Ethernet Output	4/5 (+), 7/8 (-) Nominal Output Voltage: 55 VDC
Dimensions	55.8 mm (W) × 33.3 mm (H) × 167 mm (L) 2.2 in. × 1.31 in. × 6.57 in
Net Weight	400g
Connectors	Shielded RJ-45, CAT6A
Indicators	AC Power (Yellow) Channel Power (Green)
Environmental Conditions	Operating Ambient Temperature: 14°F to 104°F (–10°C to 40°C) Operating Humidity: Maximum 90%, Non-condensing Storage Temperature: –4°F to 158°F (–20°C to 70°C) Storage Humidity: Maximum 95%, Non-condensing
Hazardous Substances	CE, WEEE
Warranty	1-year
Extended Warranty Available	Contact Microchip
Regulatory Compliance	IEEE 802.3at (PoE)
Electromagnetic Emission and Immunity	FCC Part 15, Class B EN 55032 Class B EN 55024 VCCI
Safety	UL/EN/IEC 62368-1 Please contact 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

Product Name	Part Number	Description
PD-9001-10GC/AC-xx	PD-9001-10GC	Single Port, 10 Gbps, IEEE 802.3at 30W, Indoor PoE Midspan
PD-9001-10GC/AC-US: US Power Cord		
PD-9001-10GC/AC-EU: EU Power Cord		
PD-9001-10GC/AC-UK: UK Power Cord		
PD-9001-10GC/AC-AU: AU Power Cord		

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).

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