PD-9601GS

Single-Port IEEE802.3bt 90W Gigabit PoE Midspan

Summary

Microchip's PD-9601GS is a single-port solution for remote powering of current as well as emerging high-power applications. The PD-9601GS is designed specifically to power 10/100Base-T and Gigabit IEEE 802.11n and IEEE 802.3bt devices, such as access points, Pan-Tilt-Zoom cameras (PTZ), dome cameras, IP videophones and thin clients with 90W of power. It is backwards compatible and safe to use with any IEEE 802.3af/at terminals such as VoIP phones, IP cameras and wireless LAN access points. The PD-9601GS provides power on all 4-pairs while being backwards compatible to IEEE 802.3af and IEEE 802.3at powered devices. The PD-9601GS utilizes the Gallium Nitride (GaN) technology that enables high power efficiency with low power dissipation

Features

- Supports IEEE 802.3bt type 4 standard PDs
- IEEE 802.3af/at backward compatible
- Output power of 90W over 4-pairs is guaranteed
- Supports 10/100/1000Base-T applications
- Plug-and-play installation
- 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 DoE draft) Efficiency compliant
- Support GaN technology

Feature	Description
Number of Ports	1
Data Rate	10/100/1000 Mbps
AC Input Power Requirement	AC Input Voltage: 100 to 240 VAC AC Input Current: 2.1A AC Frequency: 50/60 Hz
Output Power	User Port Power: 90 Watts
Power over Ethernet Output	Data Pairs 1/2 (–), 3/6 (+) Spare Pairs 7/8 (–), 4/5 (+) Output Voltage: 54 VDC nominal
Dimensions	L × W × H 150 mm × 70 mm × 41 mm 5.90 in. × 2.75 in. × 1.61 in.
Net Weight	395g
Connectors	Shielded RJ-45, EIA 568A and 568B
Indicators	System Indicator: AC Power - Blinking Blue Channel Power Indication: Green
Environmental Conditions	Operating Ambient Temperature: 14°F to 104°F (–10°C to +40°C) @ 90W 14°F to 140°F (–10°C to +60°C) @ 45W Operating Humidity: Maximum 90%, Non-Condensing Storage Temperature: –14°F to +185°F (–10°C to +85°C) Storage Humidity: Maximum 95%, Non-condensing Operating Altitude –1312 to 10,000 ft (–400 to 3048m)
Hazardous Substances	CE, WEEE
Warranty	2 years
Reliability	MTBF: 100,000 Hours @ 25ºC
Thermal Rating	37 BTU/Hr
Regulatory Compliance	IEEE 802.3bt
Electromagnetic Emission and Immunity	FCC Part 15, Class B EN 55032 Class B EN 55035 VCCI
Safety	UL/IEC/EN 62368-1 Please contact Microchip for a complete list of certifications
Surge Protection	EN 61000-4-5 2kV output

Technical Support

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

Ordering Information

Part Number	Name	Description
PD-9601GS/AC-XX PD-9601GS/AC-EU European Union Power Cord PD-9601GS/AC-JP Japan Power Cord PD-9601GS/AC-UK United Kingdom Power Cord PD-9601GS/AC-US United States Power Cord	PD-9601GS	Single port, IEEE 802.3bt Type 4, Gbps, 90W 4-Pairs PoE indoor midspan

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).