

PD-9501GC

Single-Port IEEE802.3bt 60W Gigabit PoE Midspan



Summary

Microchip's PD-9501GC is a single-port solution for remote powering of current as well as emerging high-power applications. The PD-9501GC is designed specifically to power IEEE 802.11n and IEEE 802.3bt access points, Pan-Tilt-Zoom (PTZ) and dome cameras, IP videophones, thin clients and other high-power Ethernet end terminals with 60W of power and it is also backwards compatible and safe to use with any IEEE 802.3af/at terminals such as VoIP phones, IP cameras and wireless LAN access points. It can power both existing 10/100Base-T devices and Gigabit devices such as wireless IEEE 802.11n access points. The PD-9501GC provides power on all 4-pairs while being backwards compatible to IEEE 802.3af and IEEE 802.3at powered devices.

Features

- Supports IEEE 802.3bt type 3 standard PDs
- IEEE 802.3af/at backward compatible
- Output power of 60W 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

Feature	Description
Number of Ports	1
Data Rate	10/100/1000 Mbps
AC Input Power Requirement	AC Input Voltage: 100 to 240 V _{AC} AC Input Current: 1.5A AC Frequency: 50/60 Hz
Output Power	User Port Power: 60 Watts
Power over Ethernet Output	Data Pairs 1/2 (-), 3/6 (+) Spare Pairs 7/8 (-), 4/5 (+) Output Voltage: 55 V _{dc} nominal
Dimensions	L × W × H 151 mm × 62 mm × 38 mm 5.94 in. × 2.44 in. × 1.5 in.
Net Weight	500g
Connectors	Shielded RJ-45, EIA 568A and 568B
Indicators	System Indicator: AC Power - Yellow Channel Power Indication: 2 Pair - Blue 4 Pair - Green
Environmental Conditions	Operating Ambient Temperature: 14°F to 104°F (-10°C to +40°C) @ 60W 14°F to 131°F (-10°C to +55°C) @ 30W 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 -1312 to 10,000 ft (-400 to 3048m)
Hazardous Substances	CE, WEEE
Warranty	1 Year
Reliability	MTBF: 240,000 Hours @ 25°C
Thermal Rating	34 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

Technical Support

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

Ordering Information

Part Number	Name	Description
PD-9501GC/AC-XX PD-9501GC/AC-EU European Union Power Cord PD-9501GC/AC-JP Japan Power Cord PD-9501GC/AC-UK United Kingdom Power Cord PD-9501GC/AC-US United States Power Cord	PD-9501GC	Single port, IEEE 802.3bt Type 3, Gbps, 60W 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).