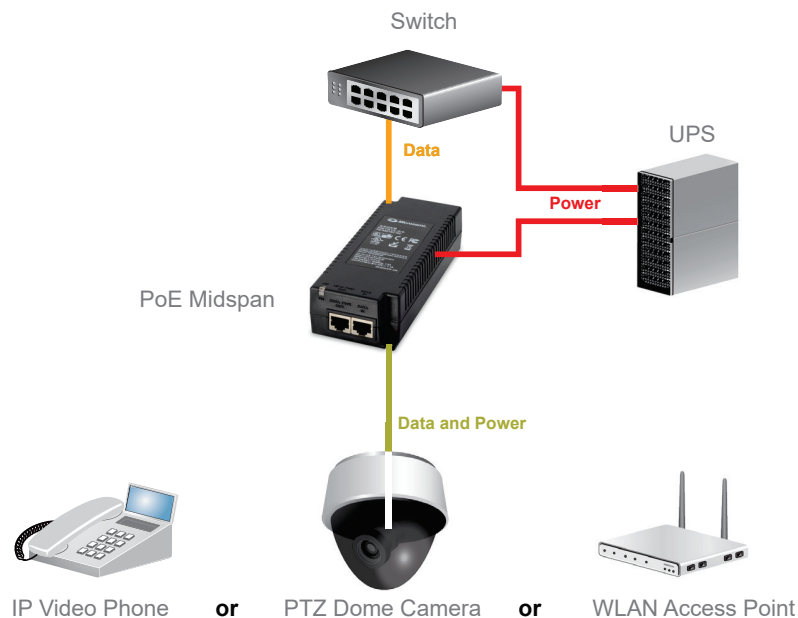# PD-9501GC Midspan
1-Port, IEEE 802.3bt 60W PoE Midspan

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 is also backward compatible and safe to use with any IEEE 802.3af/at terminal such as VoIP phones, IP cameras and wireless LAN access points. It can power both existing 10/100Base-T devices and emerging wireless Gigabit devices such as wireless IEEE 802.11n access points. The PD-9501GC provides power on all 4-pairs while being backwards compatible to 802.3af and 802.3at powered devices.

PD-9501GC Features

- IEEE 802.bt Type 3 compliant
- 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

Switch

UPS

Data

Power

PoE Midspan

Data and Power

IP Video Phone   **or**   PTZ Dome Camera   **or**   WLAN Access Point

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Specifications

Feature	Description
No. of Ports	1
Data Rates	10/100/1000 Mbps
Power over Ethernet Output	Pin Assignment and Polarity: Data Pairs 1/2 (-) and 3/6 (+) Spare Pairs 7/8 (-) and 4/5 (+) Spare Pairs 7/8 (-) and 4/5 (+) Output Power Voltage: 55 VDC User Port Power: 60W over 4-pairs (Guaranteed)
Input Power Requirements	AC Input Voltage: 100 to 240 VAC (±10%) AC Input Current: 1.5A @ 100–240 VAC AC Frequency: 50 to 60Hz
Dimensions	62 mm (W) × 38 mm (H) × 151 mm (L) 2.44 in × 1.5 in × 5.94 in
Weight	Bare unit: 0.74 lbs (340g)
Indicators	AC Power: Yellow Channel Power Indicator: 2 Pairs – Blue on 4 Pairs – Green on
Connectors	Shielded RJ-45, EIA 568A and 568B
Environmental Conditions	Operating Ambient Temperature: 32ºF to 104ºF (–0ºC to +40ºC) Operating Humidity: Maximum 95%, Non-condensing Storage Temperature: –4ºF to 158ºF (–20ºC to +70ºC) Storage Humidity: Maximum 95%, Non-condensing
Reliability	MTBF: 240,000 hrs. @ 25ºC
Thermal Rating	34.2 BTU/Hr (@100 VAC)
Warranty	1 year
Regulatory Compliance	IEEE 802.3bt (PoE), RoHS Compliant, WEEE Compliant, CE
Electromagnetic Emission & Immunity	FCC Part 15, Class B, EN 55032 Class B (Emissions), EN 55024 (Immunity), VCCI
Safety	UL/IEC/EN 60950-1 (ed. 2)

Ordering Information

Product Name	Description	Part Number
PD-9501GC/AC	Single port, IEEE 802.3bt Type 3, Gbps, 60W 4-Pairs PoE indoor midspan	PD-9501GC/AC-US: US plug PD-9501GC/AC-EU: EU plug PD-9501GC/AC-UK: UK plug PD-9501GC/AC-AU: AU plug

For More Information

www.microsemi.com

http://www.microchip.com/design-centers/power-over-ethernet

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