

PD-9601GCO

1-Port, IP67, IEEE® 802.3bt Type 4,
90W Outdoor PoE Midspan



Summary

Microchip's PD-9601GCO Power over Ethernet (PoE) single-port midspan offers a cost effective, IEEE 802.3bt type 4 compliant solution for outdoor installations, guaranteeing 90 Watts of power and ensuring safe and reliable operation in outdoor environment of any standard PoE data terminal. It allows wireless LAN access points, security network cameras and other IP terminals to receive power, along with data, over standard Ethernet cables, leaving network infrastructure completely unaltered.

The PD-9601GCO also offers surge protection for both the AC and the PoE ports ensuring the indoor equipment is protected from outdoor surges.

Features

- Outdoor rated: IP67
- Extended temperature range -40°C to $+60^{\circ}\text{C}$
- Supports IEEE802.3bt type 4 standard PDs
- IEEE 802.3af/at backward compatible
- One part number for worldwide use (AC connector)
- 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
- Includes integrated surge protection

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: 1.3A AC Frequency: 50/60 Hz
Output Power	90W over 4-pairs
Power over Ethernet Output	Data Pairs 1/2 (-), 3/6 (+) Spare Pairs 7/8 (-), 4/5 (+) Output Voltage: 54 V _{dc} nominal
Dimensions	L × W × H 170 mm × 140 mm × 60 mm 6.69 in. × 5.51 in. × 2.36 in.
Weight	3.08 lbs (1.4 KG)
Connectors	Shielded rugged RJ-45 (with gasket), AC connector
Environmental Conditions	Operating Ambient Temperature: -40°F to $+140^{\circ}\text{F}$ (-40°C to $+60^{\circ}\text{C}$) Operating Humidity: 90% Maximum Non-Condensing Storage Temperature: -4°F to $+185^{\circ}\text{F}$ (-20°C to $+85^{\circ}\text{C}$) Storage Humidity: 95% maximum, Non-condensing Operating Altitude: up to 6,560 ft. (2000 m)
Hazardous Substances	CE, WEEE
Warranty	3 years
Reliability	MTBF: 187,000 hrs. @ 25°C
Thermal Rating	51 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	Designed to meet Surge Protection as specified in: GR-1089-CORE Issue 6 ITU-T K.21 enhanced surge level protection (6 kV on Data and AC lines)
Other Standards and Approvals	Dust and water intrusion: EN60529, Weather Ratings: IP66, IP67, NEMA 250 Level 4X Corrosion Resistance: ASTM B-117

Technical Support

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

Ordering Information

Part Number	Name	Description
PD-9601GCO/AC	PD-9601GCO	1-Port, IP67, IEEE 802.3bt Type 4, 90W Outdoor PoE Midspan
PD-OUT/MBK/ET	Outdoor MBK	Mounting Bracket for Outdoor Midspans
PD-OUT/MBK/GCO	Outdoor MBK	Mounting Brackets for GCO family

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 pioneers in PoE, Microchip offers a comprehensive end-to-end portfolio of PoE solutions comprised of PoE ICs and PoE systems (midspans/injectors and switches).