

PD-9601GC Midspan

Single-Port, IEEE® 802.3bt 90W PoE Midspan



Summary

Microchip's PD-9601GC is a single-port indoor PoE injector that can provide up to 90W based on the IEEE 802.3bt standard. It is used for remote powering of current as well as emerging high-power applications. The PD-9601GC is designed to power PoE-compliant devices such as IEEE 802.11ax access points, Pan-Tilt-Zoom (PTZ) and dome cameras, IP videophones, thin clients and other high-power Ethernet end terminals requiring up to 90W of power. The PD-9601GC is IEEE 802.3bt Type 4-compliant 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, powering 10/100/1000 Base-T devices. With the midspan's plug-and-play installation, it is easy and cost effective to leverage existing Ethernet infrastructure while providing the assurance of a future-proof network.

PD-9601GC Features

- IEEE 802.3bt Type 4 standard compliant
- IEEE 802.3af/at backward compatible
- Legacy PoE Support
- Up to 90W of power over 4-pairs
- Plug-and-play installation

Specifications

| 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: 1.35A 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: 55 V _{DC} Nominal |
| Dimensions | L x W x H 166.4 mm x 88 mm x 43.9 mm 6.55 in. x 3.46 in. x 1.73 in. |
| Net Weight | 660g |
| Connectors | Shielded RJ-45, EIA 568A and 568B |
| Indicators | System Indicator: AC Power - Green Channel Power Indicators: Power delivered over 4 pairs - Green Power delivered over 2 pairs - Yellow |
| Environmental Conditions | Operating Ambient Temperature: 14°F to 104°F (-10°C to +40°C) Operating Humidity: 90% Maximum, Non-Condensing Storage Temperature: -4°F to +158°F (-20°C to +70°C) Storage Humidity: 95% Maximum, Non-Condensing Operating Altitude: -1000 to 6561.6 ft (-304.8 to 2000m) |
| Hazardous Substances | CE, WEEE |
| Warranty | 1 year |
| Extended Warranty Available | No |
| Reliability | MTBF: 100,000 hrs |
| Thermal Rating | 76 BTU/Hr @100 V _{AC} |
| Regulatory Compliance | IEEE® 802.3bt Type 4 |
| Electromagnetic Emission and Immunity | FCC Part 15, Class B EN 55032 Class B EN 55024 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 at www.microchip.com/support.

Ordering Information

| Part Number | Name | Description |
|--|--------------|--|
| PD-9601GC/AC-xx PD-9601GC/AC-US: US plug PD-9601GC/AC-EU: EU plug PD-9601GC/AC-UK: UK plug PD-9601GC/AC-AU: AU plug | PD-9601GC/AC | Single-port, IEEE® 802.3bt Type 4, Gbps, 90W 4-Pairs PoE indoor midspans |

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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