

# PD-9601GCI/DC

Single-Port, IEEE® 802.3bt Type 4 90W, 20–60 Vdc,  
Industrial Power over Ethernet (PoE) Midspan



## Summary

Microchip's PD-9601GCI is a single-port, high-power solution for remote powering of high-power indoor applications. Generating 90W, the PD-9601GCI enables remote power for a range of applications including wireless access points, Pan-Tilt-Zoom (PTZ) cameras and other IP terminals. It supports the IEEE 802.3bt PoE standard and is backward compatible to IEEE 802.3af/at. It can power both existing 10/100/1000Base-T network devices and 1000BaseT devices such as wireless IEEE 802.11n wireless access points.

## Key Features

- Supports IEEE 802.3bt type 4 standard PDs
- IEEE 802.3af/at backward compatible
- Dual DC inputs 20–60 Vdc range
- Industrial-rated IP30
- Extended temperature range
- Plug-and-play installation
- Supports 10/100/1000 Mbps
- PVC free and Halogen free
- Designed with Din Rail

## Specifications

| Feature                               | Description                                                                                                                                                                                                                                                                                               |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Ports                       | 1                                                                                                                                                                                                                                                                                                         |
| Data Rate                             | 10/100/1000 Mbps                                                                                                                                                                                                                                                                                          |
| Input Power Requirement               | DC Input Voltage: 20 to 60 Vdc<br>DC Input Current: 6A                                                                                                                                                                                                                                                    |
| Output Power                          | 90W over 4-pairs                                                                                                                                                                                                                                                                                          |
| Power over Ethernet Output            | Data Pairs 1/2 (-), 3/6 (+)<br>Spare Pairs 7/8 (-), 4/5 (+)<br>Output Voltage: 54 Vdc Nominal                                                                                                                                                                                                             |
| Dimensions                            | L × W × H<br>77.5 mm × 126 mm × 40.8 mm<br>3.05 in. × 1.77 in. × 1.61 in.                                                                                                                                                                                                                                 |
| Net Weight                            | 675 g                                                                                                                                                                                                                                                                                                     |
| Connectors                            | Shielded RJ-45, EIA 568A and 568B                                                                                                                                                                                                                                                                         |
| Indicators                            | Power 1 - Power 1 Source is connected<br>Power 2 - Power 2 Source is connected<br>Alarm - One of Power 1 or Power 2 sources is faulty<br>PoE - PoE is active and delivering power                                                                                                                         |
| Environmental Conditions              | Operating Ambient Temperature @90W: -40°F to +149°F (-40°C to +65°C)<br>Operating Ambient Temperature @60W: -40°F to +167°F (-40°C to +75°C)<br>Operating Humidity: Maximum 90%, Non-Condensing<br>Storage Temperature: -40°F to +185°F (-40°C to +85°C)<br>Storage Humidity: Maximum 95%, Non-Condensing |
| Hazardous Substances                  | CE, WEEE                                                                                                                                                                                                                                                                                                  |
| Warranty                              | 3 years                                                                                                                                                                                                                                                                                                   |
| Reliability                           | MTBF: 100,000 hrs. @ 25°C                                                                                                                                                                                                                                                                                 |
| Thermal Rating                        | 40 BTU/Hr                                                                                                                                                                                                                                                                                                 |
| Regulatory Compliance                 | IEEE® 802.3bt                                                                                                                                                                                                                                                                                             |
| Electromagnetic Emission and Immunity | FCC Part 15, Class A<br>EN 55032 Class A<br>EN55035<br>VCCI                                                                                                                                                                                                                                               |
| Safety                                | UL/IEC/EN 62368-1<br>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](http://www.microchip.com/support).

## Ordering Information

| Part Number   | Product Name  | Description                                                              |
|---------------|---------------|--------------------------------------------------------------------------|
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Contact Microchip for other options.

