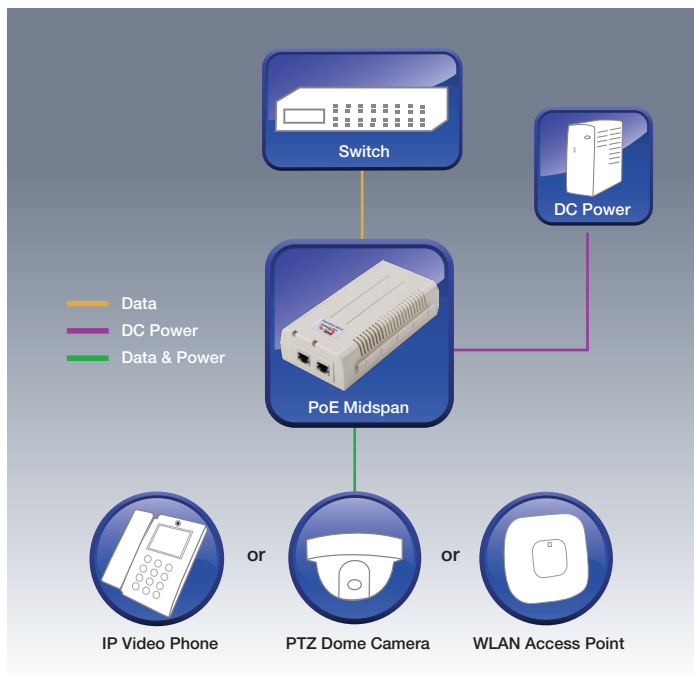


# PD-9501G/48VDC

60W, Gigabit, Single-port PoE Midspan, 48VDC Input



## Overview

Microsemi's PD-9501G is a Best-of-Breed single port solution for remote powering of devices in a 48VDC environment as well as high power applications.

It is designed specifically to power IEEE 802.11n and IEEE802.3at 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 802.3af 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 WI-MAX and wireless IEEE 802.11n access points.

With the midspan's plug-and-play installation, they are easily and cost effectively implemented leveraging an existing Ethernet infrastructure while at the same time providing flexibility to assure a future-proof scalable network.

## PD-9501G/48VDC Features

- Up to 60W of power over 4-pairs
- 48VDC input voltage
- IEEE802.3at compliant
- Plug-and-play installation
- Guaranteed uptime

## PD-9501G/48VDC Specifications

|                                     |                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No. of Ports                        | 1                                                                                                                                                                                                                                                                                                                                                          |
| Pass Through Data Rates             | 10/100/1000 Mbps                                                                                                                                                                                                                                                                                                                                           |
| Power over Ethernet Output          | Pin Assignment and Polarity:<br>Data Pairs 1/2 (-) and 3/6 (+)<br>Spare Pairs 7/8 (-) and 4/5 (+)<br>Output Power Voltage: 54-57 VDC<br>User Port Power: 60W Max.                                                                                                                                                                                          |
| Input Power Requirements            | DC Input Voltage: 36-60 VDC<br>DC Input Current: 2A                                                                                                                                                                                                                                                                                                        |
| Dimensions                          | 87 mm (W) x 43 mm (H) x 166 mm (L)<br>3.46 in. x 1.68 in. x 6.53 in.                                                                                                                                                                                                                                                                                       |
| Weight                              | .992 lbs (450g)                                                                                                                                                                                                                                                                                                                                            |
| Indicators                          | System Indicator:<br>Green—AC Power<br><br>Channel Power:<br>Green—Power delivered over 4 pairs                                                                                                                                                                                                                                                            |
| Connectors                          | Shielded RJ-45, EIA 568A and 568B                                                                                                                                                                                                                                                                                                                          |
| Environmental Conditions            | Operating Ambient Temperature:<br>-4° to 104°F (-20°C to 40°C) @60W<br>-4° to 122°F (-20°C to 50°C) @30W<br><br>Operating Humidity:<br>Maximum 90%, Non-condensing<br><br>Storage Temperature:<br>-4° to 158°F (-20° to 70°C)<br><br>Storage Humidity:<br>Maximum 95%, Non-condensing<br><br>Operating Altitude:<br>-1000 to 10,000 ft. (-304.8 to 3048 m) |
| Reliability                         | MTBF: 228,000 hrs. @25°C                                                                                                                                                                                                                                                                                                                                   |
| Thermal Rating                      | 40 BTU/Hr                                                                                                                                                                                                                                                                                                                                                  |
| Warranty                            | 1-year                                                                                                                                                                                                                                                                                                                                                     |
| Regulatory                          | IEEE 802.3af (PoE), IEEE 802.3at (including 2-event), RoHS Compliant, WEEE Compliant, CE                                                                                                                                                                                                                                                                   |
| Electromagnetic Emission & Immunity | FCC Part 15, Class B<br>EN 55022 Class B (Emissions)<br>EN 55024 (Immunity)                                                                                                                                                                                                                                                                                |
| Safety Approvals                    | GS Mark Per IEC60950                                                                                                                                                                                                                                                                                                                                       |

## Ordering Information

| Part Number    | Name                     | Ports  |
|----------------|--------------------------|--------|
| PD-9501G/48VDC | Microsemi PD-9501G 48VDC | 1-port |



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