

# PD-9501 GCS

PoE Media Convertor, IEEE 802.3bt Type 3, 60W PoE Output

## Summary

The Microchip PD-9501GCS is a Media converter with PoE functionality. It has total of 3 ports that can be active simultaneously. Data input can be via SFP module or via the RJ45 port, the output will be data and power up to 60W.

The media converter offers unique solution to power long-range installations where the data input comes over fiber. Standard SFP modules can be used (SM or MM modules).

The 9501GCS complies with IEEE 802.3bt type 3 and will provide PoE after detection, the PoE port will provide the power level needed by the end device offering a safe solution for all types of applications starting with IEEE 802.3af loads and up to IEEE 802.3bt 4-pairs loads.



## Key Features

- Media converter – SFP to PoE
- IEEE 802.3bt type 3 compliant
- IEEE 802.3af/at backward compatible
- All 3 ports can be active simultaneously
- Output power of 60W over 4-pairs is guaranteed
- Supports 10/100/1000Base-T
- Safe: low-power devices receive only the power they need

## Specifications

| Feature                             | Description                                                                                                                                                                                                                                                          |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No. of Ports                        | 3                                                                                                                                                                                                                                                                    |
| Data Rates                          | Port 1: SFP - Data Uplink, 1000BASE-X (Supports 1.25Gbps transceivers)<br>Port 2: RJ45 - Data In, 10/100/1000 Mbps<br>Port 3: RJ45 - PoE Out, 10/100/1000 Mbps                                                                                                       |
| Power over Ethernet Output          | Pin Assignment and Polarity: Data Pairs 1/2 (-), 3/6 (+)<br>Spare Pairs 7/8 (-), 4/5 (+)<br>Output Power Voltage: 54 Vdc                                                                                                                                             |
| User Port Power                     | 60 Watts (Guaranteed)                                                                                                                                                                                                                                                |
| Input Power Requirements            | AC Input Voltage: 100 to 240 Vac $\pm 10\%$<br>AC Input Current: 1.4A @ 100 Vac<br>AC Frequency: 50 to 60 Hz                                                                                                                                                         |
| Dimensions                          | 80 mm (W) $\times$ 36 mm (H) $\times$ 160 mm (L)                                                                                                                                                                                                                     |
| Weight                              | 0.88 lbs (400g)                                                                                                                                                                                                                                                      |
| Indicators                          | System indicator: AC power (Green)<br>Channel power indicator: Green – Power Deliver over 4 pairs<br>Yellow - Power Deliver over 2 pairs<br>3 Port data indicators (Green)                                                                                           |
| Connectors                          | Shielded RJ-45, EIA 568A and 568B, SFP cage                                                                                                                                                                                                                          |
| Environmental Conditions            | Operating Ambient Temperature: 14°F to 113°F (–10°C to +45°C) @60W<br>14°F to 131°F (–10°C to +55°C) @30W<br>Operating Humidity: Maximum 95%, Non-condensing<br>Storage Temperature: –4°F to 158°F (–20°C to +70°C)<br>Storage Humidity: Maximum 95%, Non-condensing |
| Reliability                         | MTBF: 150,000 hrs. @ 25°C                                                                                                                                                                                                                                            |
| Thermal Rating                      | 38 BTU/Hr                                                                                                                                                                                                                                                            |
| Warranty                            | 1 year                                                                                                                                                                                                                                                               |
| Regulatory Compliance               | RoHS Compliant, WEEE Compliant, CE Compliant, IEEE 802.3bt/at/af (PoE)                                                                                                                                                                                               |
| Electromagnetic Emission & Immunity | FCC Part 15, Class B, EN 55032 Class B (Emissions),<br>EN 55024 (Immunity), VCCI                                                                                                                                                                                     |
| Safety                              | UL/EN/IEC 60950-1 (ed.2)                                                                                                                                                                                                                                             |

## Ordering Information

| Product Name  | Description                                                | Part Number                                                                                                      |
|---------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| PD-9501GCS/AC | PoE Media Convertor, IEEE 802.3bt<br>Type3, 60W PoE Output | PD-9501GCS/AC-US: US plug<br>PD-9501GCS/AC-EU: EU plug<br>PD-9501GCS/AC-UK: UK plug<br>PD-9501GCS/AC-AU: AU plug |

## For More Information

[www.microsemi.com](http://www.microsemi.com)



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