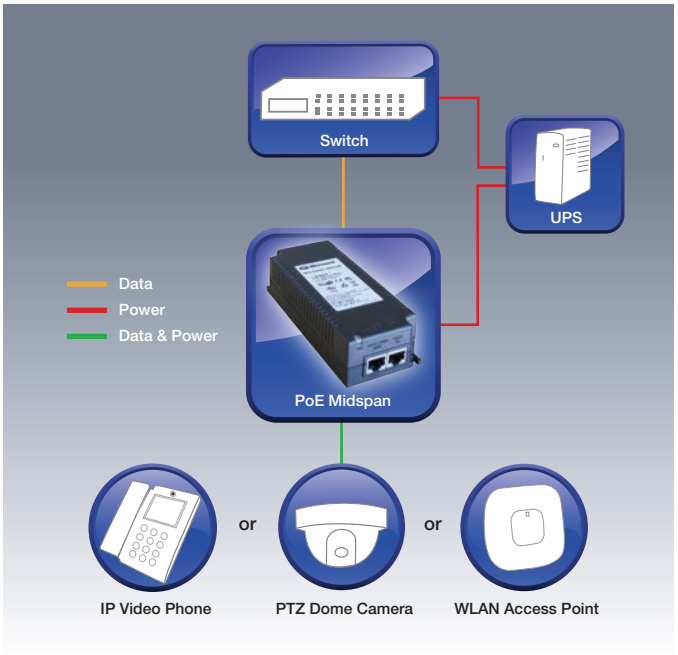
PD-9501GR Midspan

Microsemi
Power Matters.™

Single-port, 60W Gigabit Midspan, 4-Pairs, 802.3at Compliant



Overview

Microsemi's PD-9501GR is a single port solution for remote powering of current as well as emerging high power applications. The PD-9501GR is designed specifically to power IEEE 802.11n and IEEE 802.3at 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 IEEE 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. The PD-9501GR provides power on all 4-pairs while being backwards compatible to 802.3af and 802.3at powered devices.

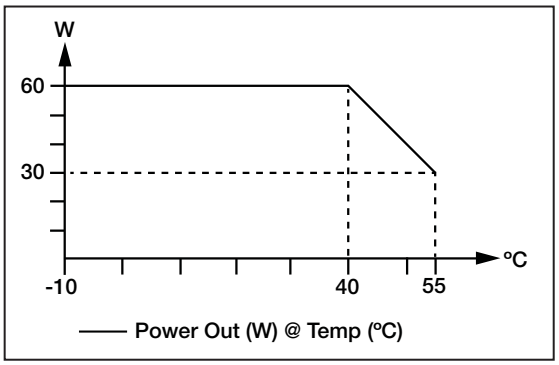
PD-9501GR Features

- IEEE 802.3at compliant with 2-event classification
- IEEE 802.3af backward compatible
- Output power of 60W 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
- Compact design fits easily in WLAN access point and IP camera installations

PD-9501GR Specifications

No. of Ports	1
Pass Through Data Rates	10/100/1000 Mbps
Power over Ethernet Output	Pin Assignment and Polarity: Data Pairs 1/2 (-) and 3/6 (+) Spare Pairs 7/8 (-) and 4/5 (+) Output Power Voltage: 55 VDC User Port Power: 60W over 4-pairs (Guaranteed)
Input Power Requirements	AC Input Voltage: 100 to 240 VAC AC Input Current: 1.5A @100-240 VAC AC Frequency: 50 to 60 Hz
Dimensions	62 mm (W) x 38 mm (H) x 151 mm (L) 2.44 in. x 1.5 in. x 5.94 in
Weight	Bare unit: .71 lbs (320g)
Indicators	AC Power: Yellow
	Channel Power Indicator: Green
Connectors	Shielded RJ-45, EIA 568A and 568B
Environmental Conditions	Operating Ambient Temperature: 14° to 113°F (-10°C to 45°C) @60W 14° to 131°F (-10°C to 55°C) @30W
	Operating Humidity: Maximum 90%, Non-condensing
	Storage Temperature: –4° to 158°F (–20° to 70°C)
	Storage Humidity: Maximum 95%, Non-condensing
Reliability	MTBF: 240,000 hrs. @25°C
Thermal Rating	30 BTU/Hr (@100Vac)
Warranty	1-year
Regulatory	IEEE 802.3at (PoE), RoHS Compliant, WEEE Compliant, CE
Electromagnetic Emission & Immunity	FCC Part 15, Class B EN 55022 Class B (Emissions) EN 55024 (Immunity), VCCI
Safety Approvals	UL/cUL Per EN 60950-1 GS Mark Per EN 60950-1

Performance Data



Ordering Information

Part Number	Name	Description
PD-9501GR	Microsemi PD-9501GR	1-port, IEEE 802.3at 4-Pairs, Gigabit Midspan

Microsemi Corporate Headquarters
One Enterprise, Aliso Viejo, CA 92656 USA
Within the USA: +1 (800) 713-4113
Outside the USA: +1 (949) 380-6100
Sales: +1 (949) 380-6136
Fax: +1 (949) 215-4996
email: sales.support@microsemi.com
www.microsemi.com

Microsemi Corporation (Nasdaq: MSCC) offers a comprehensive portfolio of semiconductor and system solutions for communications, defense & security, aerospace and industrial markets. Products include high-performance and radiation-hardened analog mixed-signal integrated circuits, FPGAs, SoCs and ASICs; power management products; timing and synchronization devices and precise time solutions, setting the world's standard for time; voice processing devices; RF solutions; discrete components; security technologies and scalable anti-tamper products; Power-over-Ethernet ICs and midspans; as well as custom design capabilities and services. Microsemi is headquartered in Aliso Viejo, Calif., and has approximately 3,400 employees globally. Learn more at www.microsemi.com.

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MSC-PD-9501GR 5.14

MOBOTIX Ordering Details

MOBOTIX Product: UPoE Network Power Injector

MOBOTIX Order Code:Mx-NPA-UPOE1A-60W

CE / RoHS DECLARATION OF CONFORMITY

We, Microchip Technology Inc / Microsemi Corp.
Neve Ne'eman Industrial Zone
1 Hanagar St.
PO Box 7220
45421 Hod Hasharon, Israel
Phone: +972-9-775-5100

Declare under our sole responsibility that our Power over Ethernet Midspans, Model Designations

- PD-3501G/AC-AUS
- PD-3501G/AC-BR
- PD-3501G/AC-CN
- PD-3501G/AC-NC
- PD-3501G/AC-TW
- PD-3501G/AC-UK
- PD-3501GC/AC
- PD-3501GC/AC-EU
- PD-3501GC/AC-JP
- PD-3501GC/AC-PC
- PD-3501GC/AC-UK
- PD-3501GC/AC-US
- PD-3504G/AC-AU
- PD-3504G/AC-EU
- PD-3504G/AC-JP
- PD-3504G/AC-UK
- PD-3504G/AC-US
- PD-9001-10GC/AC
- PD-9001-10GC/AC-EU
- PD-9001-10GC/AC-JP
- PD-9001-10GC/AC-UK
- PD-9001-10GC/AC-US
- PD-9001-25GC/AC
- PD-9001GCO/AC
- PD-9001GR/AT/AC-50
- PD-9001GR/AT/AC-AU
- PD-9001GR/AT/AC-UK
- PD-9001GR/SP/AC
- PD-9001GR/SP/AC-AU
- PD-9001GR/SP/AC-JP
- PD-9001GR/SP/AC-UK
- PD-9001GR/SP/AC-US
- PD-9004G/AC
- PD-9004G/AC-AU
- PD-9004G/AC-EU

- PD-9004G/AC-JP
- PD-9004G/AC-UK
- PD-9024GC/AC-EK
- PD-9501-10GC/AC
- PD-9501-10GC/AC-CN
- PD-9501-10GC/AC-EU
- PD-9501-10GC/AC-JP
- PD-9501-10GC/AC-UK
- PD-9501-10GC/AC-US
- PD-9501-10GCO/AC
- PD-9501G/48VDC
- PD-9501GC/AC
- PD-9501GC/AC-UK
- PD-9501GCS/AC
- PD-9501GCS/AC-EU
- PD-9501GCS/AC-JP
- PD-9501GCS/AC-UK
- PD-9501GCS/AC-US
- PD-9501GO/48VDC
- PD-9501GO/AC-INTL
- PD-9501GR/AC
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- PD-9612GC/AC-JP
- PD-9612GC/AC-UK
- PD-9624GC/AC-AU
- PD-9624GC/AC-JP
- PD-9624GC/AC-UK
- PD-AS-951/12-24
- PD-POE-EXTENDER
- PDS-104GO/AC/M-CC
- PDS-408G/AC
- PDS-408G/AC-EU
- PDS-408G/AC-UK
- PD-USB-DP30
- PD-USB-PO30

To which this declaration relates are in conformity with the **Electromagnetic Compatibility Directive 2014/30/EU**, the **Low Voltage Directive 2014/35/EU,** and the **RoHS directive 2011/65/EU + 2015/863/EU with Exemption 7(a) and 7(c)-I.**

Per the provisions of the following standards:

- EN 55032: 2015+ A11:2020
- EN 55035: 2017+ A11:2020
- EN 61000-3-2: 2019+A1:2021
- EN 61000-3-3: 2013+ A1:2019
- IEC 62368-1:2018 3rd Ed.
- EN IEC 62368-1:2020+A11:2020
- EN IEC 63000:2018

Ronen Dozly
Project Manager
2023.01.17
Microsemi Corp.

MOBOTIX
BeyondHumanVision

EN_10/26
MOBOTIX AG • Am Stundenstein 2 • D-67722 Winnweiler • Tel.: +49 6302 9816-103 • sales@mobotix.com • www.mobotix.com
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