PD-9001GR

Single-port Gigabit PoE Midspan, 802.3at Compliant



Overview

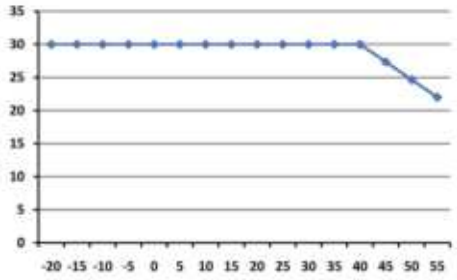
Microsemi's PD-9001GR is a single port, high-power solution for remote powering of current and emerging high power applications. Generating up to 30W, the PD-9001GR enables remote power for a new range of applications including 802.11n Access Points, pan-tiltzoom (PTZ) cameras and video-phones. It complies to IEEE 802.3at PoE standard and is backward compatible to IEEE802.3af. It can power both existing 10/100Base-T network devices and emerging wireless 1000Base-T devices such as WiMAX and wireless IEEE 802.11n access points.

PD-9001GR Features

- IEEE 802.3at compliant with 2-event classification
- IEEE 802.3af backward compatible
- Output power of 30W is guaranteed
- Supports 10/100/1000Base-T applications
- Compatible with IEEE 802.3af devices
- 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 Cameras installations

Specifications

Feature	Description
No. of Ports	1
Data Rates	10/100/1000 Mbps
Power over Ethernet Output	Pin Assignment and Polarity: Spare Pairs 7/8 (-) and 4/5 (+) Output Power Voltage: 55 VDC User Port Power: 30W (Guaranteed)
Input Power Requirements	AC Input Voltage: 100 to 240Vac (±10%) AC Input Current: 0.67A @ 100-240Vac AC Frequency: 50 to 60Hz
Dimensions	51.8mm (W) x 34.8mm (H) x 160.5mm (L) ±0.5mm 2.04 in. x 1.37 in. x 6.31 in ±0.02 in
Weight	.44 lbs (200g)
Indicators	User Indicator: Channel Power (Green)
Connectors	Shielded RJ-45, EIA 568A and 568B
Environmental Conditions	Operating Ambient Temperature: Conditions -4ºF to 104ºF (-20 ºC to 40ºC) @30W -4ºF to 131ºF (-20 ºC to 55ºC) @22.5W
Environmental Conditions Reliability	Operating Humidity: Maximum 90%, Non-condensing
	Storage Temperature: -4º to 158ºF (-20º to 70ºC)
	Storage Humidity: Maximum 95%, Non-condensing
	Operating Altitude: –1000 to 10,000 ft. (–304.8 to 3048 m)
	MTBF: 100,000 hrs. @ 25ºC
Thermal Rating	20 BTU/Hr (@240VAC)
Warranty	1-year
Regulatory Compliance	IEEE 802.3af (PoE), RoHS Compliant, WEEE Compliant, CE
Electromagnetic Emission & Immunity	FCC Part 15, Class B EN 55032 Class B (Emissions) EN 55024 (Immunity) VCCI
Safety	UL/EN/IEC 60950-1 (Ed.2)



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PD-9001GR

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Ordering Information

Microsemi p/n	Name	Description
PD-9001GR/AT/AC	Microsemi PD-9001GR	Single-port, Gigabit PoE Midspan, 802.3at Compliant

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