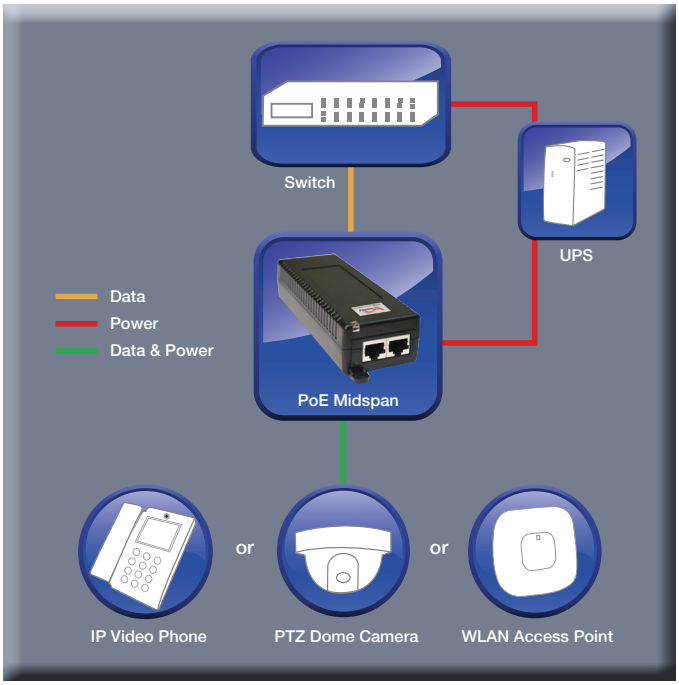
PowerDsine 9001GR

Single Port, High Power Gigabit Midspan, 802.3at Compliant



Overview

The PowerDsine 9001GR is a single port, high-power solution for remote powering of current and emerging high power applications. Generating up to 30W, the 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.

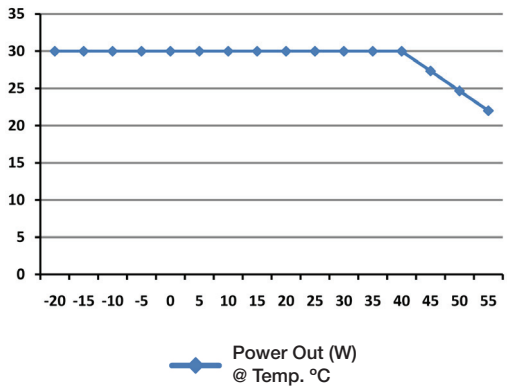
PD-9001GR Features

- 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
- Compatibility
  - PD-9001GR/AT: IEEE802.3at
  - PD-9001GR: IEEE802.3at + Legacy detection
- 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

PD-9001GR Specifications

No. of Ports	1
Pass Through Data Rates	10/100/1000 Mbps
Power over Ethernet Output	Pin Assignment and Polarity: 4/5 (+), 7/8 (–) Output Power Voltage: 55Vdc User Port Power: 30Watts (Guaranteed)
Input Power Requirements	AC Input Voltage: 100 to 240 Vac AC Input Current: 0.8A @100-240Vac AC Frequency: 50 to 60 Hz
Dimensions	53 mm (W) x 32.5 mm (H) x 140 mm (L) 2.09 in. x 1.28 in. x 5.5 in
Weight	.44 lbs (200g)
Indicators	AC Power (Yellow)
	Channel Power (Green)
Connectors	Shielded RJ-45, EIA 568A and 568B
Environmental Conditions	Operating Ambient Temperature: -4° to 104°F (-20 to 40°C) @ 30W -4° to 131°F (-20 to 55°C) @ 22.5W
	Operating Humidity: Maximum 90%, Non-condensing
	Storage Temperature: -4° to 158°F (-20° to 70°C)
	Storage Humidity: Maximum 95%, Non-condensing
Reliability	MTBF: 100,000 hrs. @25°C
Thermal Rating	20 BTU/Hr (@240VAC)
Warranty	1-year
Regulatory Compliance	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 IEC 60950-1 GS Mark Per IEC 60950-1

PD-9001GR Performance



PowerDsine®

Microsemi

Ordering Information

Part Number	Name	Description
PD-9001GR/AC	PowerDsine PD-9001GR	1-port IEEE 802.3at Legacy Gigabit Midspan
PD-9001GR/AT/AC	PowerDsine PD-9001GR/AT	1-port IEEE 802.3at Gigabit Midspan

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Power Matters.

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