PDS-208G

8 + 2-Port Digital Ceiling PoE Switch

The Microsemi PDS-208G digital ceiling PoE switch offers an optimal and cost-effective solution for PoE lighting and other digital ceiling applications. It allows lighting fixtures and other Ethernet terminals to receive power and data over standard Ethernet cables in the most efficient way. The PDS-208G is a 240 W fanless switch, designed to be deployed in the ceiling or in communications rooms. Output PoE power can be configured per port, and the device supports full-power mode by providing 30 W for eight ports simultaneously and any individual port can go up to 72 W.

The 240 W high-speed switch offers Layer 2 management capabilities. It has eight 10/100/1000 Mbps (Gigabit Ethernet) ports with PoE capabilities based on Microsemi 4-pair PoE technology that enables 50% power loss saving on the Ethernet cables. It also has two Gigabit ports that can be used for uplinks.

Key Features

- High-efficiency IEEE 802.3az energy-efficient-PoE 4-pair solution
- Supports data rates of 10/100/1000 Mbps
- Fanless design—silent operation and enhanced reliability
- Full-power PoE functionality (IEEE 802.3at)—8 × 30 W
- High-power PoE capability—ports can go up to 72 W
- Layer 2 switch—including 802.1Q-based VLANs enables segmentation of networks for improved performance and security
- Configuration and monitoring—Web management and SNMP

Specifications

Feature	Description
Number of ports	8 + 2
Data rates	10/100/1000 Mbps
PoE output	240 W
Pin assignment and polarity	4/5 (+), 7/8 (–), 1/2 (–), and 3/6 (+) Output power voltage: 55 VDC User port power: 30 W guaranteed
MAC address table	8K
Jumbo frame	2K

Specifications

Feature	Description
VLAN	IEEE 802.1Q VLAN, port-based, tag-based
IGMP snooping	IPV4, IPV6
Spanning tree	IEEE 802.1D-2004 rapid spanning tree
Link aggregation	IEEE 802.3ad link aggregation control protocol (LACP) on uplink ports
MIB support	MIB-II, SNMP MIB, PoE MIB RFC3621
Bridge multicast groups	512
Management	CLI, Web, Telnet, SNMP V2C
Firmware upgrade	HTTP, TFTP
Standards	IEEE 802.3 (Ethernet) IEEE 802.3u (100Base-TX Fast Ethernet) IEEE 802.3ab (1000Base-TX) IEEE 802.3az (Energy Efficient Ethernet) IEEE 802.3x (Flow Control and Back Pressure) IEEE 802.3af and at (Power over Ethernet)
Input power requirements	AC input voltage: 90 VAC to 264 VAC AC frequency: 50 Hz to 60 Hz
Weight	4.5 kg
Dimensions	445 mm × 263 mm × 44 mm (L×W×H)
Thermal	Passive cooling (no fan)
Connectors	Shielded RJ-45, EIA 568A, and 568B
AC input connector	Universal 3-pin (IEC60320 Type C14), with option to connect external junction box
Environmental conditions	Operating ambient temperature: 32 ºF to 113 ºF (0 ºC to 45 ºC)
	Operating humidity: maximum 90%, non-condensing
	Storage temperature: –40 ºF to 158 ºF (–40 ºC to 70 ºC)
	Storage humidity: maximum 95%, non-condensing
Reliability	MTBF: 100,000 hours at 25 ºC
Warranty	3 years
Regulatory compliance	IEEE 802.3at (PoE), CE RoHS-compliant, WEEE-compliant
Electromagnetic emission and immunity	FCC Class B CE EN 55022 Class B EN 55024 EN 61000-3-2 EN 61000-3-3
Safety	UL/EN/IEC 60950-1

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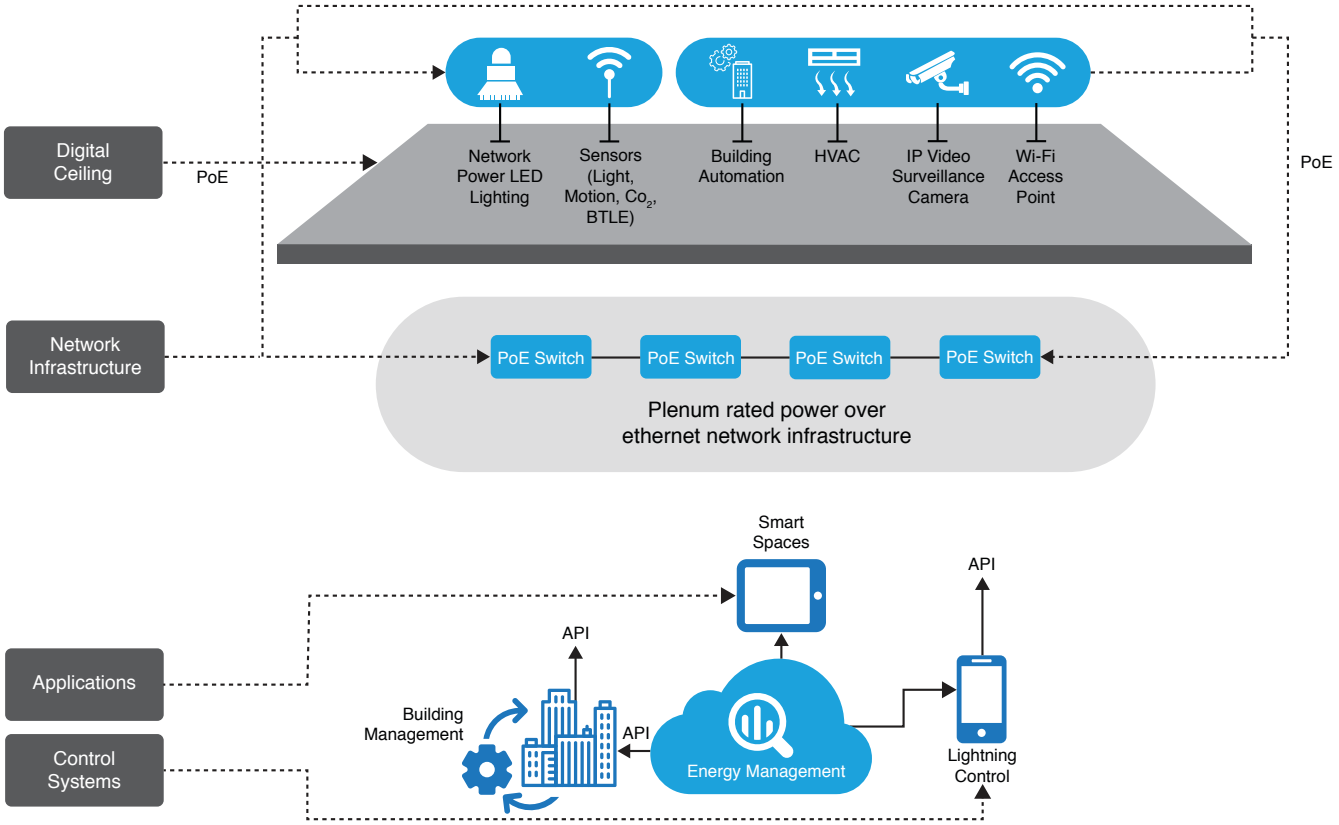
Ordering Information

Microsemi Part Number	Name	Description
PDS-208G/F/M/AC-US	Microsemi PDS-208G: US plug	8 + 2 port digital ceiling PoE switch, AC input
PDS-208G/F/M/AC-EU	Microsemi PDS-208G: EU plug	8 + 2 port digital ceiling PoE switch, AC input
PDS-208G/F/M/AC-UK	Microsemi PDS-208G: UK plug	8 + 2 port digital ceiling PoE switch, AC input
PDS-208G/F/M/AC-AU	Microsemi PDS-208G: AU plug	8 + 2 port digital ceiling PoE switch, AC input

Microsemi Digital Ceiling



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