

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 °F to 113 °F (0 °C to 45 °C)
	Operating humidity: maximum 90%, non-condensing
	Storage temperature: -40 °F to 158 °F (-40 °C to 70 °C)
	Storage humidity: maximum 95%, non-condensing
Reliability	MTBF: 100,000 hours at 25 °C
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

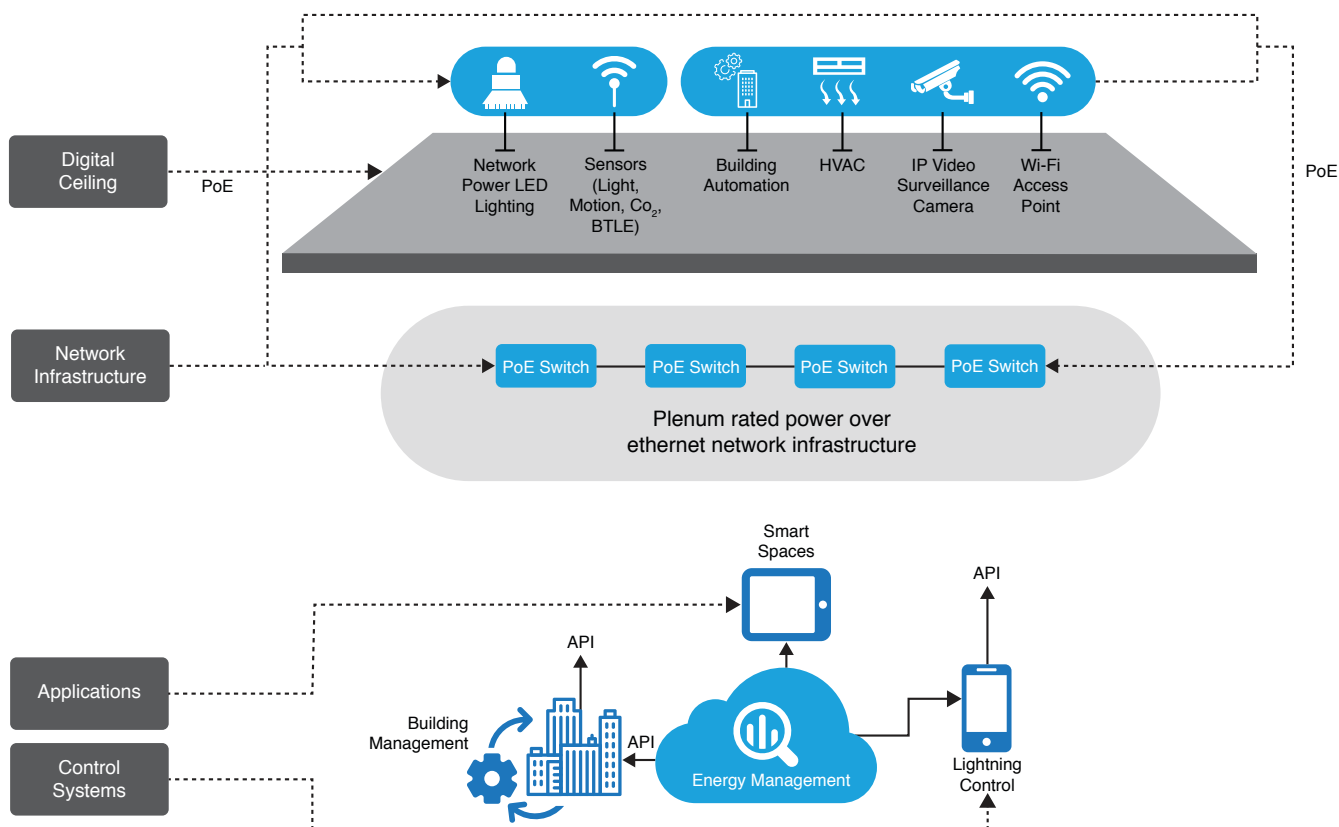
PDS-208G

8 + 2-Port Digital Ceiling PoE Switch

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



Microsemi Corporate Headquarters
 One Enterprise, Aliso Viejo, CA 92656 USA
 Within the USA: +1 (800) 713-4113
 Outside the USA: +1 (949) 380-6100
 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 aerospace & defense, communications, data center 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; enterprise storage and communication solutions, security technologies and scalable anti-tamper products; Ethernet solutions; Power-over-Ethernet ICs and midspans; as well as custom design capabilities and services. Microsemi is headquartered in Aliso Viejo, California and has approximately 4,800 employees globally. Learn more at www.microsemi.com.

Microsemi makes no warranty, representation, or guarantee regarding the information contained herein or the suitability of its products and services for any particular purpose, nor does Microsemi assume any liability whatsoever arising out of the application or use of any product or circuit. The products sold hereunder and any other products sold by Microsemi have been subject to limited testing and should not be used in conjunction with mission-critical equipment or applications. Any performance specifications are believed to be reliable but are not verified, and Buyer must conduct and complete all performance and other testing of the products, alone and together with, or installed in, any end-products. Buyer shall not rely on any data and performance specifications or parameters provided by Microsemi. It is the Buyer's responsibility to independently determine suitability of any products and to test and verify the same. The information provided by Microsemi hereunder is provided "as is, where is" and with all faults, and the entire risk associated with such information is entirely with the Buyer. Microsemi does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other IP rights, whether with regard to such information itself or anything described by such information. Information provided in this document is proprietary to Microsemi, and Microsemi reserves the right to make any changes to the information in this document or to any products and services at any time without notice.