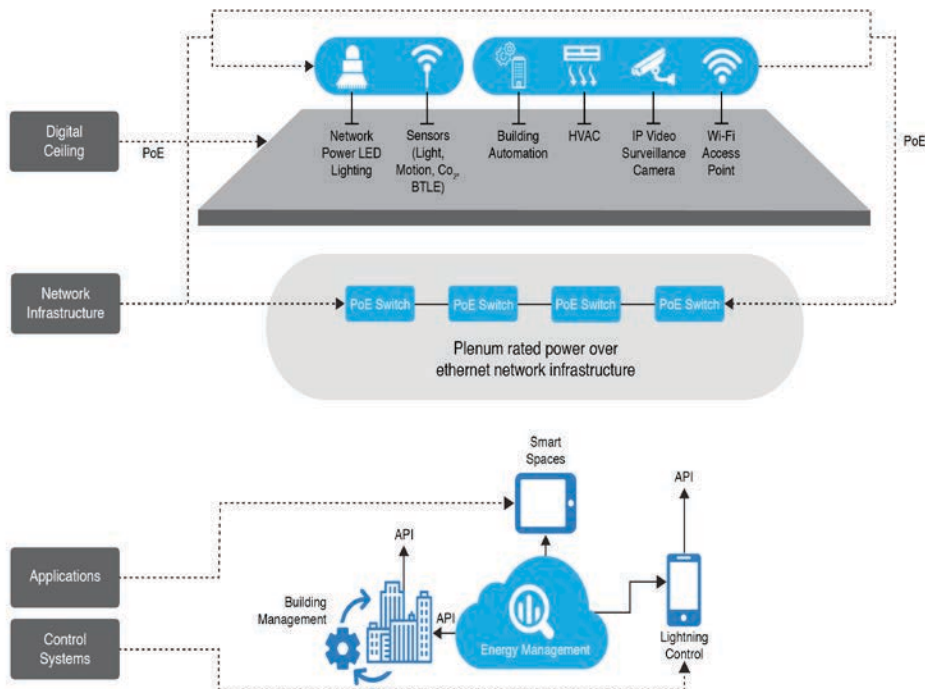


# PDS-408G

## Digital Ceiling PoE Switch

The Microsemi PDS-408G Digital Ceiling PoE Switch offers optimal and cost-effective solution for PoE application like PoE lighting and other digital ceiling applications. It allows lighting fixtures and other Ethernet terminals to receive power, along with data, over standard Ethernet cables in the most efficient way. PDS-408G is a 480W fan-less switch, designed to be deployed in the ceiling or in communications rooms. Provides automatic output PoE power based on PoE PD device class. It supports full power mode by providing 60W for all 8 ports simultaneously and any specific port can go up to 90W.

### Microsemi Digital Ceiling



### Key Features

- 8 x 10/100/1000 PoE ports
- Uplinks: 2 x 10/100/1000 Copper, 1 x SFP – Fiber/Copper
- Total available power for PoE – 480W:  
Full power supported: 8 x 60W (total 480W)  
Ports can go up to 90W per port (total 480W)
- Supports IEEE 802.3bt (backwards compatible to IEEE 802.3at/af)
- Legacy PoE detection mode option can be activated to support pre-standard devices
- Fan-less design
- High power efficiency: low standby consumption < 10[W]
- Layer 2 switch – including VLAN, STP-spanning tree backup and loop protection, LACP Link aggregation, IGMP Snooping, LLDP, Port isolation and Port mirroring
- Remote management – Web HTTP/HTTPS (encrypted TLS v1.2), ACL-Access list for enhanced secured remote users access, Telnet, SSHv2, SNMPv2-v3, RADIUS/TACACS user authentication
- Software update can be performed without interfering the POE delivery to connected PoE devices rates

# PDS-408G

## Digital Ceiling PoE Switch

### Specifications

Feature	Description
Number of Ports	8+3
Data Rate	10/100/1000 Mbps
PoE Output	480W
VLAN	<ul style="list-style-type: none"> <li>• 802.1Q VLAN switch with 8K MACs and 4K VLANs</li> <li>• Push/pop up to two VLAN tags</li> </ul>
Port-Isolation and Private-VLAN	Isolate ports without VLAN configuration.
MAC Address Table	8k
Jumbo Frame	9.6k
Spanning Tree	STP/RSTP/MSTP
IGMP Snooping	IPv4, IPv6, IGMP Snooping v1-v3, including IGMP Querier
Link Aggregation	IEEE 802.3ad LACP or Static
Access control List	Limit which network protocol and IP can manage the unit
SNMP	SNMP MIBs used to monitoring and semi management
Management	Web HTTP/HTTPS, CLI, Telnet, SSHv2, SNMPv1,v2C, and V3
Port Mirroring	Mirror Rx, Tx, and both
Software Upgrade	Easy upgrade over HTTP (also TFTP) with dual image support and no PoE power loss during software update
Standards	IEEE 802.3bt and at Power over Ethernet (PoE) up to 90W
	Ethernet 10/100/1000 IEEE 802.3, 802.3u, 802.3ab, 802.3z
	IEEE 802.3x Flow control and back pressure
	IEEE 802.3ad port trunk with LACP
	Spanning Tree STP/RSTP/MSTP IEEE 802.1D, 802.1w, 802.1s
	IEEE 802.1ab LLDP
	IEEE 802.1Q VLAN tagging
Input Power Requirements	IEEE 802.3az energy efficient Ethernet
	AC Input Voltage: 100 to 240Vac
	AC Frequency: 50 to 60Hz
	Weight
	5.3kg
	Dimensions
	443 mm x 291 mm x 44.4 mm (L, W, H)
Thermal	Passive cooling – no fan
Connectors	Shielded RJ-45, EIA 568A and 568B SFP Cage
AC Input Connector	Universal 3 pins (IEC60320 Type C14), option to connect external junction box
Environmental	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

# PDS-408G

## Digital Ceiling PoE Switch

### Specifications - Continuation

Feature	Description
Reliability	MTBF: 100,000 hours @ 25°C
Warranty	1-year
Regulatory	ROHS, WEEE, and CE
Electromagnetic Emission and Immunity	FCC Class B EN 55032 Class B EN 55024 EN 61000-3-2 EN 61000-3-3
Safety Approvals	UL/EN/IEC 60950-1 (ed.2) UL 2043, Plenum rating

# PDS-408G

## Digital Ceiling PoE Switch

### PDS-408G Outdoor Switch



### Ordering Information

Part Number	Name	Description
PDS-408G/AC	8+3 ports POE Switch, AC input	PDS-408G/AC-US: US Plug PDS-408G/AC-EU: EU Plug PDS-408G/AC-UK: UK Plug PDS-408G/AC-AU: AU Plug



#### Microsemi 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](mailto:sales.support@microsemi.com)  
[www.microsemi.com](http://www.microsemi.com)

Microsemi, a wholly owned subsidiary of Microchip Technology Inc. (Nasdaq: MCHP), 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. Learn more at [www.microsemi.com](http://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.

©2019 Microsemi, a wholly owned subsidiary of Microchip Technology Inc. All rights reserved. Microsemi and the Microsemi logo are registered trademarks of Microsemi Corporation. All other trademarks and service marks are the property of their respective owners.

MSC-PDS-408G-Switch 2.0 05/19

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Microchip:

[PDS-408G/F/M/AC-US](#) [PDS-408G/F/M/AC-EU](#) [PDS-408G/AC-EU](#) [PDS-408G/AC-JP](#) [PDS-408G/AC-US](#) [PDS-408G/AC](#) [PDS-408G/AC-UK](#)