# 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 (+) <br> Output power voltage: 55 VDC <br> 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) <br> IEEE 802.3u (100Base-TX Fast Ethernet) <br> IEEE 802.3ab (1000Base-TX) <br> IEEE 802.3az (Energy Efficient Ethernet) <br> IEEE 802.3x (Flow Control and Back Pressure) <br> IEEE 802.3af and at (Power over Ethernet) |
| Input power requirements | AC input voltage: 90 VAC to 264 VAC <br> 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: <br> 32 ºF to 113 ºF (0 ºC to 45 ºC) |
| | Operating humidity: <br> maximum 90%, non-condensing |
| | Storage temperature: <br> –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 <br> RoHS-compliant, WEEE-compliant |
| Electromagnetic emission and immunity | FCC Class B <br> CE <br> EN 55022 Class B <br> EN 55024 <br> EN 61000-3-2 <br> EN 61000-3-3 |
| Safety | UL/EN/IEC 60950-1 |

## 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
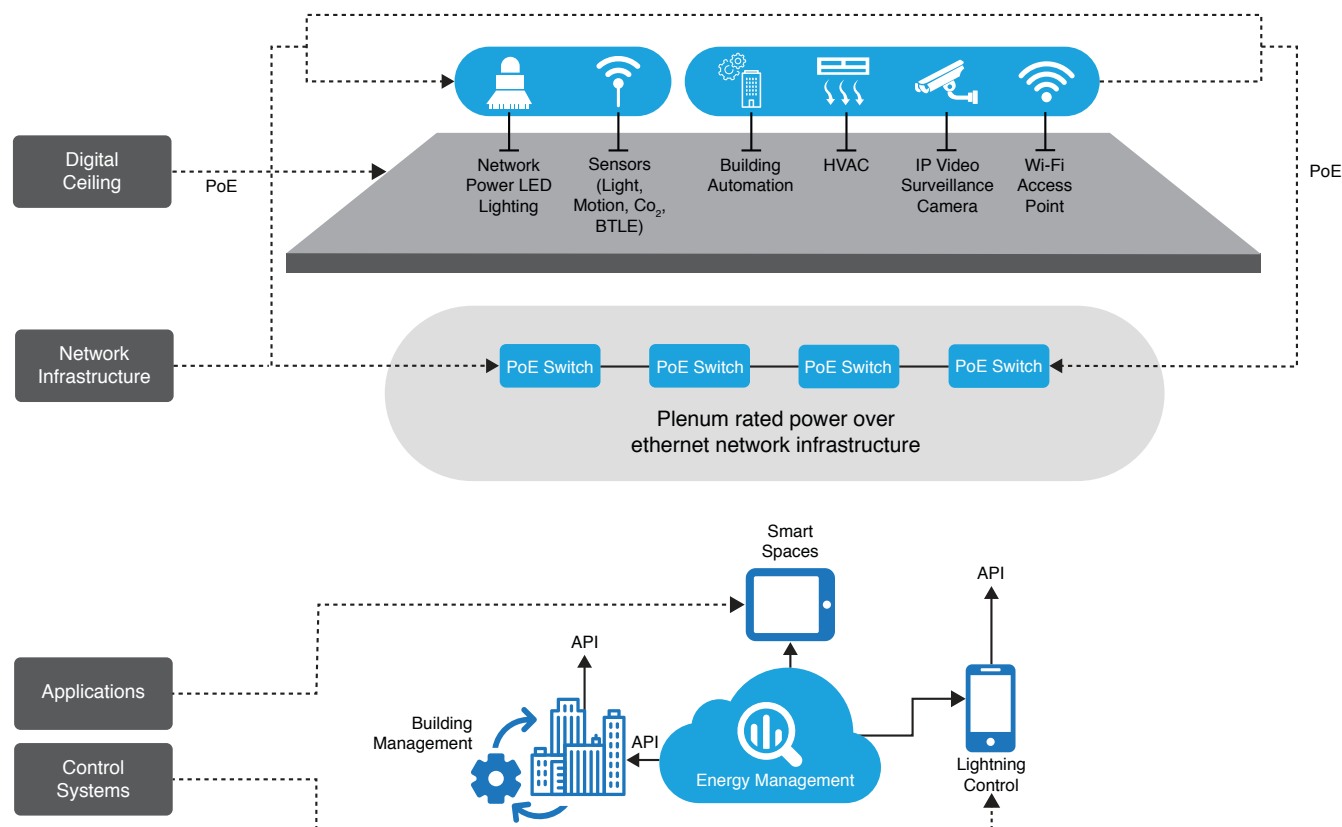
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