PDS-408G

Digital Ceiling PoE Switch

Summary

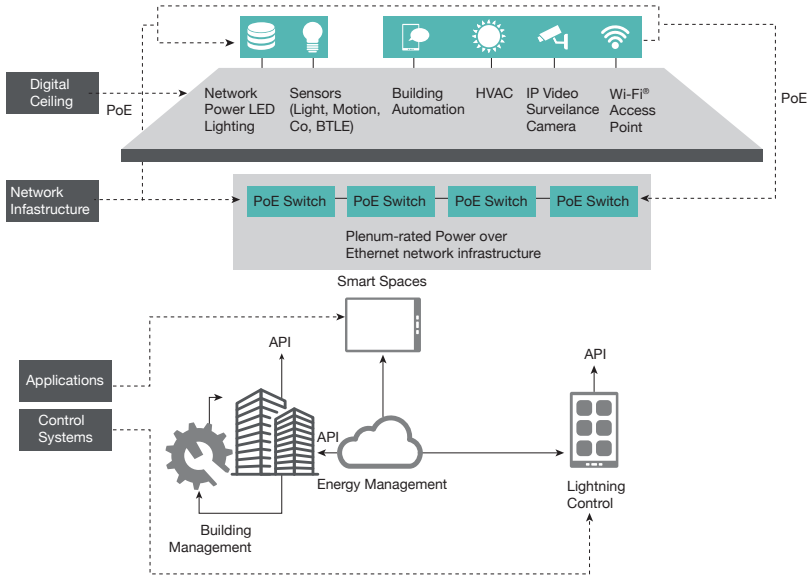
The PDS-408G Digital Ceiling PoE Switch offers optimal and cost-effective solution for PoE application like PoE lighting and other digital ceiling applications. It allows lighting fixtures and other Ethernet terminals to receive power, along with data, over standard Ethernet cables in the most efficient 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.

The 480W high-speed switch can be managed over Web, SSH, Telnet and CLI. It has 8 ports of 10/100/1000 Mbps (Gigabit Ethernet) with PoE BT ports, 2 Gigabit ports and one 1000M/100M SFP port.

Key Features

- 8 x 10/100/1000 PoE ports
- Uplinks: 2x 10/100/1000 copper
- 1x SFP – Fiber/Copper
- Total available power for PoE – 480W: Full power supported: 8x 60W (total 480W)
- Ports can go up to 90W per port (total 480W)
- Supports IEEE 802.3bt (backwards compatible to IEE 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 < 10W
- 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

Digital Ceiling



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Specifications

Feature	Description
Number of Ports	8+3
Data Rate	10/100/1000 Mbps
PoE Output	480W
VLAN	802.1Q VLAN switch with 8K MACs and 4K VLANs Push/pop up to two VLAN tags
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/RSTM/MSTP IEEE 802.1D, 802.1w, 802.1s IEEE 802.1ab LLDP IEEE 802.1Q VLAN tagging IEEE 802.3az energy efficient Ethernet
Input Power Requirements	AC Input Voltage: 100 to 240 Vac AC Frequency: 50 to 60 Hz
Weight	5.3 kg
Dimensions	443 mm × 291 mm × 44.4 mm (L, W, H)
Thermal	Passive cooling – no fan

Feature	Description
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: 32ºF to 113ºF (0ºC to 45ºC) Operating Humidity: Maximum 90%, Non-condensing Storage Temperature: –40ºF to +158ºF (–40ºC to +70ºC) Storage Humidity: Maximum 95%, non-condensing Reliability MTBF: 100,000 hours @ 25ºC
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 Switch

Ordering Information

Product	Description	Part Numbers
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

For More Information

www.microsemi.com
http://www.microchip.com/design-centers/power-over-ethernet

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