

PDS-104GO

4 + 1 Outdoor Switch, 60W Per Port, Managed PoE, AC Input



Summary

The PDS-104GO is an outdoor PoE switch that enables the connection of four powered devices to a network such as an outdoor WLAN, outdoor IP camera or outdoor P2P radio. With VLAN and RADIUS support, the PDS-104GO brings improved security and performance. It provides better safety through centralized management of user profiles and authorized system access. By regulating network traffic in each VLAN, the switch offers increased network performance. The switch offers an SFP port for uplink in order to support optical interfaces or electrical interfaces. It is IP67-rated and can be installed in outdoor environments. Deployment is simple and straightforward. The PDS-104GO delivers PoE power of up to 60W per device. In addition, it enables remote monitoring and control of the devices' status, including remote reset. The switch extends the reach between the switch and powered devices by an additional 100 meters to a maximum of 200 meters—a major benefit in many applications. It offers lightning protection to the switch itself and to the indoor network.

Key Features

- Five ports: one SFP data input, four PoE outputs
- VLAN tagging: access/trunk
- Authentication, authorization and accounting: RADIUS and TACACS
- Remotely managed: SNMP and web
- Extends network reach by additional 100m
- Outdoor rated: IP67
- Extended temperature range: -40°C to +50°C
- IEEE 802.3at-compliant, 60W per port
- Supports 10/100/1000 Mbps data rates
- Integrated surge protection
- Plug-and-play installation
(installer does not have to open unit)

Specifications

Feature	Description
Number of Ports	5
Data Rates	SFP: 1000 Mbps Modules Copper: 10/100/1000 Mbps
Power over Ethernet Output	Pin Assignment and Polarity: Ports 1 and 2: 1/2, 3/6, 4/5, and 7/8 Ports 3 and 4: 1/2 and 3/6
Input Power Requirements	Input voltage: 100 V _{AC} –240 V _{AC} Input current: 2.5A Input Frequency 50/60 Hz
User Port Power	60W Aggregate 150W
Dimensions	L x W x H 240 mm × 166 mm × 72 mm 8.42 in. × 5.90 in. × 2.75 in.
Net Weight	2.9 kg
Connectors	Shielded RJ-45, EIA 568A, and 568B SFP Cage
Indicators	No LED indicators
Environmental Conditions	Operating ambient temperature: –40 °F to +122 °F (–40°C to +50°C) Operating humidity: maximum 90%, non-condensing Storage temperature: –40 °F to +185 °F (–40°C to +85°C) Storage humidity: maximum 95%, non-condensing Operating altitude: Up to 6,560 feet (2000 m)
Hazardous Substances	CE, WEEE
Warranty	3 years
Extended Warranty Available	Contact Microchip
Reliability	MTBF: 200,000 hours at 25°C
Thermal	90 BTU/Hr
Regulatory Compliance	IEEE 802.3at (PoE)
Electromagnetic Emission and Immunity	FCC Part 15, Class B EN 55032 Class B EN 55024, EN61000-4-5 Class 5 (6 kV CM) EN 61000-3-2 EN 61000-3-3
Safety Approvals	UL 60950-22, EN 60950-22, IEC 60950-22 UL 62368-1, EN 62368-1, IEC 62368-1
Surge Protection	GR-1089-CORE Issue 4 ITU-T K.20 6 kV on AC lines
Other Standards and Approvals	Dust and water intrusion: IEC60529, IP67, NEMA 250, NEMA 4X

Management Capabilities

Feature	Description
System Network Management Capabilities	Web interface—used to view unit PoE and Network status, unit configuration and unit production information
	SNMP v2/v3—used to monitor unit over the network (MIB-II RFC1213) and monitor/configure unit PoE capabilities (RFC3621)
	Telnet—used to view unit PoE and Network status, unit configuration and production information Software update, Enable/Disable PoE functionality, ping remote network device for connectivity test
	SNMP traps—used to report various PoE events as PoE PD insertion/removal
	SysLog—used to report PoE events, invalid remote user access, initial DHCPv4/v6 address and more
Ethernet Switch Network Capabilities	10/100/1000 Mbps half-duplex/full-duplex Ethernet speed
	8K internal MAC address lookup engine
	Auto MDIX
	Jumbo frames
PoE Capabilities	IEEE® 802.3at—delivers up to 60 Watts per port
	PoE enable/disable—enable/disable PoE port power output (Ethernet data is always enabled)
	Weekly schedule—automatic activation/deactivation of PoE ports based on time of day
	Remote device reset—turning temporary device power off and back on resets attached PD device
Configuration Options	Web-based—configured using a web browser
	SNMPv1/2c/3—configured using an SNMP management application on a remote computer
	Telnet—configured using a Telnet application on a remote computer
Security and User Authentication	Web, Telnet, SNMPv2 and SNMPv3. VLAN, RADIUS, and TACACS

Technical Support

For technical support, please visit the Microchip Technical Support Portal at www.microchip.com/support.

Ordering Information

Part Number	Name	Description
PDS-104GO/AC/M-CC	PDS-104GO	4 + 1 PoE outdoor switch

Related Product

Part Number	Name	Description
PD-OUT/MBK/S	OUT/MBK/S	Mounting brackets for outdoor unit

Contact Microchip for other options

About Microchip mPoE



Microchip multi-Power over Ethernet (mPoE) is a technology that powers any wired network device seamlessly and efficiently, making it the ideal solution for Ethernet-based applications. Leveraging a uniquely designed algorithm, this technology solves interoperability issues between different PoE standards and legacy solutions to provide an international network power standard. As a pioneer in PoE technology, we offer a comprehensive end-to-end portfolio of PoE solutions comprised of PoE ICs and PoE systems (midspans/injectors and switches).