# 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:<br>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 VAC–240 VAC<br>Input current: 2.5A<br>Input Frequency 50/60 Hz |
| **User Port Power** | 60W<br>Aggregate 150W |
| **Dimensions** | L x Wx H<br>240 mm × 166 mm × 72 mm<br>8.42 in. × 5.90 in. × 2.75 in. |
| **Net Weight** | 2.9 kg |
| **Connectors** | Shielded RJ-45, EIA 568A, and 568B<br>SFP Cage |
| **Indicators** | No LED indicators |
| **Environmental Conditions** | Operating ambient temperature: –40 °F to +122 °F (–40°C to +50°C)<br>Operating humidity: maximum 90%, non-condensing<br>Storage temperature: –40 °F to +185 °F (–40°C to +85°C)<br>Storage humidity: maximum 95%, non-condensing<br>Operating altitude: Up to 6,560 feet (2000 m) |
| **Hazardous Substances** | CE, WEEE |
| **Warranty** | 3 years |
| **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<br>EN 55032 Class B<br>EN 55035, EN61000-4-5 Class 5 (6 kV CM)<br>EN 61000-3-2<br>EN 61000-3-3 |
| **Safety Approvals** | UL 60950-22, EN 60950-22, IEC 60950-22<br>UL 62368-1, EN 62368-1, IEC 62368-1 |
| **Surge Protection** | GR-1089-CORE Issue 4<br>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

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