### 3.2 PC/Other Devices to 5-Port Gigabit 802.3af PoE Switch

You can connect this switch to PCs, servers, and other network devices using a straight-through Ethernet cable.
3.3 Connecting a Powered Device to the Switch Using Power over Ethernet (PoE)
Using a CAT5 cable, connect the powered device (PD) to any of the four device ports on the switch. The switch will detect the PD and supply 48-V power to the device over the CAT5 cable.

NOTE: The PD must comply with the IEEE 802.3af standard.
4. Operation

LED indicators on the 5 -Port Gigabit 802.3af PoE Switch's front panel show status.

Table 4-1. LEDs and their Functions.

| LED | Status | Description |
| :--- | :--- | :--- |
| Power | Green On | Power to the unit is on and normal |
|  | Off | Power to the unit is off |
|  | Green/Yellow On | Ethernet uplink port is connected |
|  | Green flashing | Upllink data activity at 1000 Mbps |
|  | Flashing | Uphing |
|  | Green/Yellow On | Ethernet uplink port is connected |
| LAN | Green flashing | Ethernet uplink data activity at 1000 Mbps |
|  | Yellow flashing | Ethernet uplink data activity at 100 Mbps |
|  | Flashing | Ethernet uplink data activity at 10 Mbps |
| PoE | Green On | PoE function is enabled |
|  | Off | PoE function is disabled |

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5-Port Gigabit 802.3af PoE Switch

Add 4 PoE devices to your
existing Gigabit LAN. existing Gigabit LAN.


1. Specifications

Buffer Memory - 104 Kbits
Certifications - FCC Class A
Filtering/Forwarding Rates -
1000-Mbps port: 1,488,000 pps;
$100-M b p s$ port: $148,800 \mathrm{pps}$;
10-Mbps port: 14,880 pps
MAC Address - 1 K
PoE - Supports up to 15.4 W for each PoE port,; PoE power budget: 62 W; PD classification identify; PoE overcurrent protection; PoE overcurrent protection, PoE circuit sorting protection; PoE power on RJ-45 Pins 3 and 6 for power + , Pins 1 and 2 for power -

Standards — IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.ab 1000BASE-TX, IEEE 802.3af Power over Ethernet

Transmission Media -
10BASE-T: CAT3, 4, 5 UTP/STP;
100/1000BASE-TX: CAT5e/6/7 UTP/STP

### 2.3 Features

- Each port autonegotiates between 10, 100, and 1000 Mbps.
- Four ports support PSE/PoE.
- Supports up to 15.4 W maximum power for each PSE/PoE port.
- Auto-learns network configurations.
- Auto-detects full-/half-duplex modes for any port.
- Offers dedicated full-duplex 2000-Mbps bandwidth.
- Store-and-forward switching methods.
- IEEE $802.3 x$ flow control for full-duplex and backpressure flow control for half-duplex operation.
- Non-blocking and non-head-of-line blocking full wire-speed forwarding.
- Auto-MDI/MDI-X function for any port.
- Smart plug-and-play.


### 2.4 Hardware Description

Figures 2-1 and 2-2 show the switch's front and back panels. Table 2-1 describes its components.


Figure 2-1. Front panel.


Figure 2-2. Back panel.
Table 2-1. Components.

| Number | Component | Description |
| :--- | :--- | :--- |
| 1 | (4) RJ-45 connectors | Link to 10/100/1000 Ethernet devices |
| 2 | (1) RJ-45 connector | Connects to 1000-Mbps uplink |
| 3 | (4) LAN LEDs | Lights when port is connected; flashes <br> when data is transmitting or receiving. |
| 4 | (4) PoE LEDs | Lights when port is linked to power <br> device; Off when no power device is <br> connected. |
| 5 | Green/yellow on: Ethernet uplink port <br> is connected; <br> Green flashing: Uplink data activity at <br> 1000 Mbps; <br> Yellow flashing: Uplink data activity at <br> 100 Mbps <br> Flashing: Upllink data activity at <br> 10 Mbps |  |
| 6 | (1) Power LED | Lights when power to the unit is on <br> and normal |
| 7 | (1) barrel connector <br> for power | Connects to power adapter |

## 3. Installation

### 3.1 Switch/Hub to 5-Port Gigabit 802.3af PoE Switch

This switch provides automatic crossover detection for any port so it's simple to uplink to another switch without using a crossover cable.

