5-Port Gigabit 802.3af PoE Switch

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.

<table>
<thead>
<tr>
<th>LED</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>Green On</td>
<td>Power to the unit is on and normal</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>Power to the unit is off</td>
</tr>
<tr>
<td>Uplink</td>
<td>Green/Yellow On</td>
<td>Ethernet uplink port is connected</td>
</tr>
<tr>
<td></td>
<td>Green flashing</td>
<td>Uplink data activity at 1000 Mbps</td>
</tr>
<tr>
<td></td>
<td>Yellow flashing</td>
<td>Uplink data activity at 100 Mbps</td>
</tr>
<tr>
<td></td>
<td>Flashing</td>
<td>Uplink data activity at 10 Mbps</td>
</tr>
<tr>
<td>LAN</td>
<td>Green/Yellow On</td>
<td>Ethernet uplink port is connected</td>
</tr>
<tr>
<td></td>
<td>Green flashing</td>
<td>Ethernet uplink data activity at 1000 Mbps</td>
</tr>
<tr>
<td></td>
<td>Yellow flashing</td>
<td>Ethernet uplink data activity at 100 Mbps</td>
</tr>
<tr>
<td></td>
<td>Flashing</td>
<td>Ethernet uplink data activity at 10 Mbps</td>
</tr>
<tr>
<td>PoE</td>
<td>Green On</td>
<td>PoE function is enabled</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>PoE function is disabled</td>
</tr>
</tbody>
</table>

Customer Support Information

Order toll-free in the U.S.:
Call 877-877-BBOX
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E-mail: info@blackbox.com

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LPB1205A, rev. 2
5-Port Gigabit 802.3af PoE Switch

Connectors — (4) RJ-45 PSE/PoE, (1) RJ-45 uplink port

Indicators — (10) LEDs: Per port: (1) LAN, (1) PoE, Per unit: (1) Power LED, (1) Uplink LED

Temperature Tolerance — Operating: 32 to 122° F (0 to 50° C)

Relative Humidity — 10 to 90%, noncondensing

Power — 100–240 VAC/50-60 Hz external power supply

Size — 1.1″H x 4.7″W x 3.5″D (2.8 x 9 x 12 cm)

Weight — 2.6 lb. (1.2 kg)

2. Overview

2.1 Introduction

This switch provides five 10-/100-/1000-Mbps ports ([1] Gigabit uplink port and [4] Power-over-Ethernet [PoE] ports). Each port supplies up to 15.4 W, and the total PoE budget is 62 W. The switch is ideal for office and home users who want to use a combination of PoE and non-PoE enabled devices. The switch’s four PoE-enabled ports connect to a mixture of PoE and non-PoE enabled devices. The switch’s four PoE-enabled ports connect to a mixture of PoE IP phones, PoE with APs, and PoE IP cameras. Plus, it automatically detects an IEEE 802.3af compliant device connected to the switch and provides power and data over a single cable.

2.2 What’s Included

Your package should contain the following items.

- (1) 5-Port 802.3af PoE Gigabit Ethernet Switch
- (1) AC to DC power adapter (48-VDC/1.35 A)
- This user’s manual

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 802.3x flow control for full-duplex and back-pressure 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.

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.