FCC Warning

This device has been tested and found to comply with limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates and radiates radio frequency energy and, if not installed and used in accordance with the user's manual, it may cause interference in which case users will be required to correct interference at their own expenses.

CE Warning

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

BLACK BOX NETWORK SERVICES

Great tech support is just 30 seconds away at 724-746-5500 or blackbox.com.

Customer Support Information

Order toll-free in the U.S.:
Call 877-877-BBOX
(outside U.S. call 1-724-746-5500)

FREE technical support
24 hours a day, 7 days a week:
Call 724-746-5500 or
fax 724-746-0746

Mailing address:
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1000 Park Drive
Lawrence, PA 15055-1018

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LPS535A-SFP rev. 1

BLACK BOX NETWORK SERVICES

PoE+ PSE Media Converter

Convert fiber to copper, plus provide 15.4 W of PoE power or 25.5 W of PoE+ power to PoE/PoE+ devices (PD).

Smart plug-and-play.
Adds PoE+ without any new configuration.

Overview

The PoE+ PSE Media Converter has (1) 1000BASE-X SFP and (1) 10/100/1000BASE-T PSE port. The 1000BASE-X SFP port supports single- and multimode SFP transceivers. The 10/100/1000BASE-T PSE port supports IEEE 802.3at PoE+.

The media converter can deliver up to 30 W power and Ethernet data to the PD device through one Ethernet Cable. The media converter provides an easy-to-install, plug-and-play way of adding PoE/PoE+ to any existing network system with minimal reconfiguration.

What's Included

Your package should contain the following items. If anything is missing or damaged, contact Black Box Technical Support at 724-746-5500 or info@blackbox.com.

- PoE+ PSE Gigabit Media Converter
- Power adapter with power cord
- Quick Installation Guide

Features

- (1) 10/100/1000BASE-T Ethernet TP port with IEEE 802.3at PoE+.
- (1) 1000BASE-X Gigabit SFP port.
- TP Port can support full-duplex, auto-MDI/MDI-X and auto-negotiation.
- Supports Link Lost Forwarding (LLF) and Link Fault Pass-Through (LFP).

Hardware Description

Figures 1 and 2 show the front and back panels of the LPS535A-SFP. Table 1 describes the components.

1 2

FIgure 1. LPS535A-SFP front panel.

3

Figure 2. LPS535A-SFP back panel.

Table 1. Components of the LPS535A-SFP.

Number in Fig. 1 and 2	Component	Description
1	(1) RJ-45 port	Connects to 10/100/1000BASE-T IEEE 802.3at PoE+ device
2	(1) SFP port	Connects to 1000BASE-X
3	Power supply	Links to power cord
4	Indicators	(5) LEDs: (1) Power LED, (1) SFP Link/Act, (1) PSE, (1) 100M/ACT, (1) 1000M/ACT *NOTE: For details, see the Technical Specifications chart on the next page.*
5	DIP switch (not shown, located on side of unit)	ON when LLF/LFP is enabled; OFF when LLF/LFP is disabled

Connecting the Powered Device (PD) to the POE+ PSE Gigabit media converter.

Insert SFP into the SFP cage, then connect the fiber cable. Next, connect the power source to the DC Jack.

Connect the CAT5/5e or above twisted-pair cable from the existing PD to the PSE (RJ-45) port. The PSE port can deliver data plus power output to the Powered Device, such as a wireless AP or other devices with PD function.

Technical Specifications

Approvals	FCC Class A, CE
Standards	IEEE 802.3 10BASE-T, 802.3u 100BASE-TX, 802.3ab 1000BASE-T, and 802.3z 1000BASE-SX/LX, IEEE 802.3at PoE+
User Controls (located on side of unit)	(1) DIP switch: ON: LLP/LFP enable; OFF: LLF/LFP disable
Interface	RJ-45: 10/100/1000BASE-T, 802.3at; SFP Port: 1000BASE-X
Connectors	(1) RJ-45; (1) SFP
Indicators (located on top of unit)	Power LED: ON when DC power is connected; SFP Link/Act LED: ON when there is activity on the SFP link; PSE: ON when a Powered Device (PD) is connected; 100M/ACT: ON when port is running at 100M speed and activity; 1000M/ACT: OFF when port is running at 1000M speed and activity
Temperature	Operating: 32 to 113° F (0 to 45° C); Storage: -4 to 185° F (-20 to +85° C)
Humidity	10 to 90% relative, non-condensing
Power	Input: 100–240 VAC, 50–60 Hz, 0.8 A max.; Output: 48 VDC, 0.8 A; Consumption: 33 Watts maximum; PoE+ output: 802.3at, up to 30 W
Dimensions	0.9"H x 2.9"W x 4"D (2.2 x 7.4 x 10.2 cm)
Weight	0.53 lb. (0.24 kg)