1-Port Gigabit PoE+ Splitter

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LPS2001

1-Port Gigabit PoE+ Splitter

Splits the data and power from the cable over PSE.

Complies with IEEE 802.af/at standards.

1. Specifications

Filtering/Forwarding Rates —
1000-Mbps port: 1,488,000 pps;
100-Mbps port: 148,800 pps;
10-Mbps port: 14,880 pps

Standards — IEEE 802.3af, IEEE 802.3at, IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T

Transmission Media — 10BASE-T/100BASE-TX/ 1000BASE-T Category 5 UTP/STP

Connectors — (1) LAN in (data + power) port, (1) LAN out (data-only) port

Indicators — (1) Power LED

1. Specifications (continued)

Temperature Tolerance — Operating: +32 to
+113° F (0 to +45° C);
Storage: -4 to +194° F (-20 to +90° C)

Relative Humidity — 10 to 90%, noncondensing

Power — Output: 5V/4A, 7.5V/2.7A, 9V/2.3A,
and 12V/1.7A;
Consumption: 22 W

Size — 0.9"H x 4"W x 2.9"D (2.3 x 10.2 x 7.4 cm)

Weight — 0.48 lb. (0.22 kg)

2. Overview

The 1-Port Gigabit PoE+ Splitter (802.3af/at) splits the data and the power from the cable coming over power sourcing equipment (PSE). When the input port connects to PSE via CAT5 twisted-pair cable, the splitter will pass-through the data signal to the RJ-45 output port and also convert the 48 VAC PoE/PoE+ power to 5, 7, 9, or 12 VDC output power jack. With this splitter, a device that does not function as a Powered Device (PD) can use power from a PSE.

2.1 Features

• Complies with IEEE 802.3af/at. IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, and IEEE 802.3ab 1000BASE-T.

• Twisted-pair (TP) port supports Auto MDI/MDI-X and autonegotiation.

• TP port connects to up to 328 feet (100 m) of shielded/unshielded TP cable.

• Supports 5V/4A, 7.5V/2.7A, 9V/2.3A, and 12V/1.7A.

• Unit is smart plug-and-play.

2.2 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.

• (1) PoE+ splitter

• (1) power output cord

• This user's manual

2.3 Hardware Description
Figures 2-1, 2-2, and 2-3 show the front, back, and side panels of the splitter. Table 2-1 describes its components.
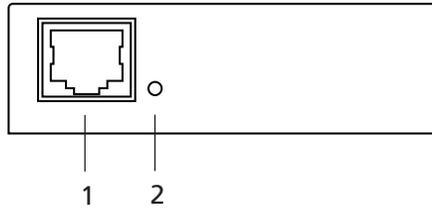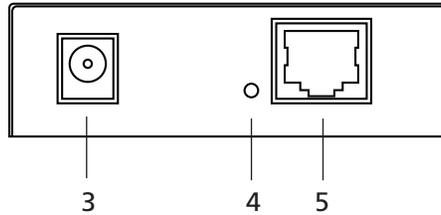
Figure 2-1. Front panel.
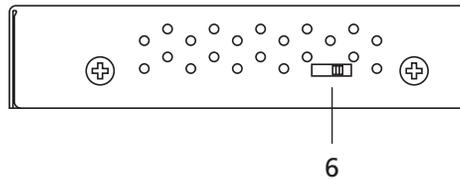
Figure 2-2. Back panel.

Figure 2-3. Side panel.

Table 2-1. Components.

Number	Component	Description
1	RJ-45 connector	Data plus power
2	Power LED	ON when power is on and ready to connect to PSE. OFF when power is off.
3	Power connector	Power only
4	Not used	Not used
5	RJ-45 connector	Data only
6	Slide switch	Select output voltage (12 V, 9 V, 7.5 V, or 5 V)

3. Operation

The splitter has a Power LED. AS described in Table 2-1, it's ON when power is on and ready to connect to PSE, and OFF when power is off.

4. Installation

STEP 1: Connect the TP input port to the PSE port of the PoE switch or power injector hub.

STEP 2: Connect the TP output port directly to the TP port of the client device (for example, a SOHO switch or wireless access point (AP).

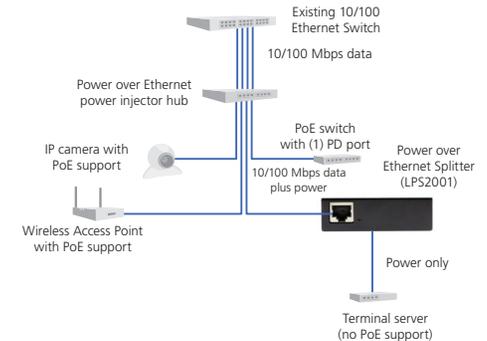**STEP 3:** Use the power jack cable to connect to the client devices. The splitter will supply 5V/4A, 7.5V/2.7A, 9V/2.3A, or 12V/1.7A to the client devices.

Figure 4-1. Typical installation.