

1-Port Gigabit PoE+ Splitter

FEDERAL COMMUNICATIONS COMMISSION AND INDUSTRY CANADA RADIO FREQUENCY INTERFERENCE STATEMENTS

This equipment generates, uses, and can radiate radio-frequency energy, and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication.

It has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart B of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This digital apparatus does not exceed the Class A limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of Industry Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique publié par Industrie Canada.



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LPS2001, rev. 1



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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-Port Gigabit PoE+ Splitter

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-Port Gigabit PoE+ Splitter

- (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.

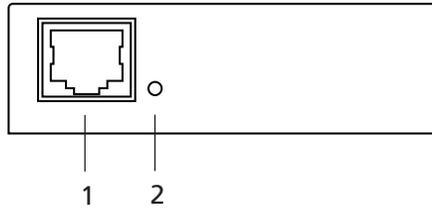


Figure 2-1. Front panel.

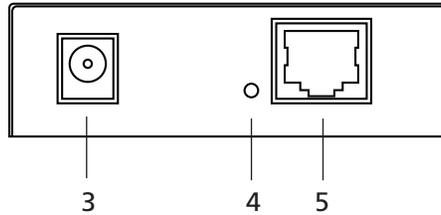


Figure 2-2. Back panel.

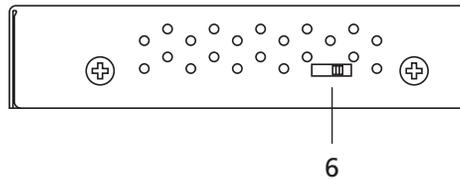


Figure 2-3. Side panel.

1-Port Gigabit PoE+ Splitter

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.

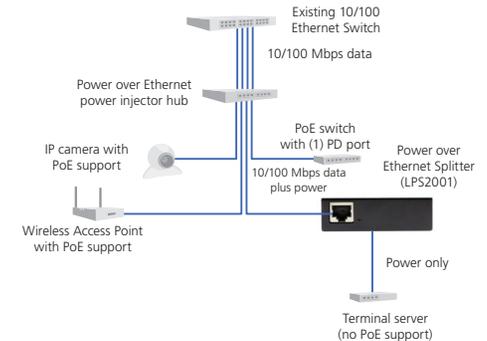


Figure 4-1. Typical installation.