



## IEEE802.3bt PoE to 48VDC Splitter

**60W Isolated Power Output and Gigabit Data**

### BS548G



#### Product Overview

The BS548G is a Gigabit Power over Ethernet (PoE) Splitter, which splits a Gigabit Ethernet IEEE802.3bt PoE cable into a separated Gigabit Ethernet and an isolated 48VDC with 60W power output. It allows users to run Gigabit speed for CAT5e cables over a 100m distance away from PoE switch while providing isolated 48VDC output and separated data to power up the non-PoE network devices.

With a DC-Jack connector for an isolated 48VDC power output, this BS548G also provides 2 LED indicators: **BT** and **Vout**. The **BT** LED indicates if the BS548G is powered by IEEE802.3bt 90W PoE Switch, and the **Vout** indicates if the 48VDC is ON. It saves cost when installing various network devices in varied locations without AC adaptor outlets.

## Key Features

- Splitter Output Voltage: 48VDC with max 60W over PoE CAT5e 100meter distance
- Power Output Current: up to 1.25A with power isolation
- Ethernet devices at 10/100/1000Mbps speeds within a compact device
- Auto-sensing power from IEEE802.3bt/at/af or Passive high power PSE devices
- Safeguards network device with over-current and short-circuit protection
- Converts Non-PoE devices with Power Over Ethernet Support
- Wider working temperature of 0 ~ 50°C
- Light weight and compact size with wall mounting capability
- Fan-less thermal diffusion design

## Interfaces

- 2-Port RJ-45 interfaces : 1x PoE (Data+Power) input, and 1x Data output
- DC-Jack Connector for 48VDC power output

## Power over Ethernet

- IEEE 802.3bt/at/af PoE standards compliant PD (Powered Device)
- Supports max. 60watt (48VDC x 1.25A) isolated power output
- Split the 48~56V DC power over RJ-45 Ethernet cable into 48VDC output
- Remote power feeding up to 100 meters

## Hardware

- Metal case with wall-mounting capability
- LED indicators for IEEE802.3bt PoE and Power voltage output
- Fan-less thermal diffusion design

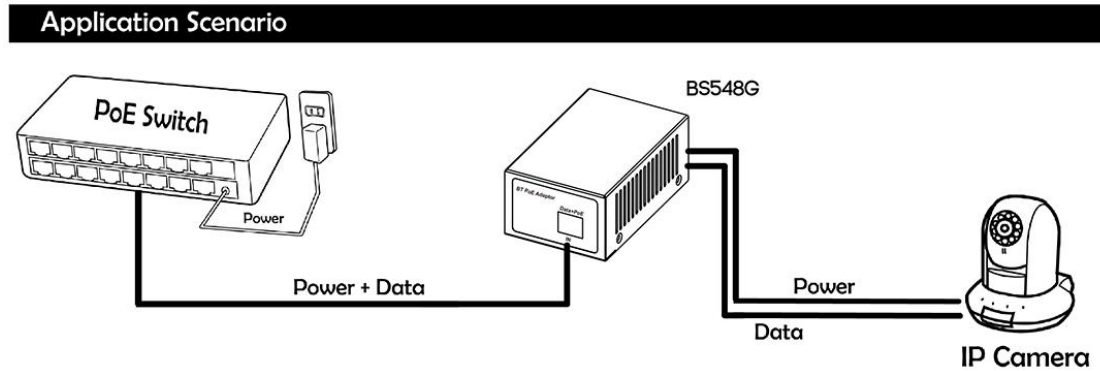
## Standard Compliances

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX
- IEEE 802.3ab 1000Base-T
- IEEE 802.3bt High Power over Ethernet
- IEEE 802.3at/af Power over Ethernet
- FCC Part 15 Class A, CE

Hardware Specification	
<b>Ethernet Interfaces</b>	Input Port (Front Panel) <ul style="list-style-type: none"> <li>■ 1 x RJ-45 UTP</li> <li>■ PoE (Data + Power) Input</li> </ul> Output Port (Back panel) <ul style="list-style-type: none"> <li>■ 1 x RJ-45 UTP</li> <li>■ DC 48V out</li> </ul>
<b>LED Indicators</b>	<b>Vout:</b> 48VDC output voltage is ON (Green) <b>BT:</b> PoE Power from IEEE802.3bt source (Green)
<b>PoE Power Source</b>	802.3bt PoE (90W): PU100GB 10/100/1000Base-T: 4-Pair UTP Cat. 5e, 6 up to 100m (328ft)
<b>Network Cable</b>	Midspan PoE (60W): PU100GA, PI300GH 10/100Base-T: 2-Pair UTP Cat. 5e, 6 up to 100m (328ft) 10/100/1000Base-T: 4-Pair UTP Cat. 5e, 6 up to 100m (328ft)
	802.3at PoE (30W): PI100GA 10/100/1000Base-T: 2-Pair UTP Cat. 5e, 6 up to 100m (328ft)
<b>Data Rate</b>	10/100/1000Mbps Auto Sensing
<b>Dimensions (WxDxH)</b>	66 x 104 x 44 mm
<b>Weight</b>	280g
<b>Input Power Source</b>	CAT5e with PoE 48 ~ 56V DC
<b>Max Output Power</b>	60watts (48V/1.25A)
<b>Operating Temperature</b>	0 ~ 50°C
<b>Storage Temperature</b>	-10 ~ 70°C
<b>Humidity</b>	20 ~ 95% (Non-condensing)
Power over Ethernet	
<b>PoE Standard</b>	IEEE 802.3bt 90W Power over Ethernet
<b>PoE Power Input</b>	End-Span or Mid-Span auto detection
<b>Power Output</b>	DC 48V / 1.25A (Max. 60W) for CAT5e 100m distance
Standards Conformance	

<b>Standards Compliance</b>	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3bt High Power over Ethernet IEEE 802.3at/af Power over Ethernet High Power Midspan PoE
<b>Regulation Compliance</b>	FCC Part 15 Class A, CE

## Application Scenario



## Ordering Information

Part Number	Description
BS548G	10/100/1000M GbE, IEEE802.3bt, 48VDC 60W PoE splitter
BS552G	10/100/1000M GbE, IEEE802.3bt, 52VDC 60W PoE splitter
BS556G	10/100/1000M GbE, IEEE802.3bt, 56VDC 60W PoE splitter

Yoda Communications, Inc. [www.yoda.com.tw](http://www.yoda.com.tw)

2F, No. 3-1, Industry East Road IX, Science Based Industrial Park, HsinChu, Taiwan

Tel:+886-3-563-2323 Fax:+886-3-563-6420