



IEEE802.3bt PoE to 12VDC Splitter

48W Isolated Power Output and Gigabit Data

BS412G



Product Overview

The BS412G 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 12VDC with 48W power output. It allows users to run Gigabit speed for CAT5e cables over a 100m distance away from PoE switch while providing isolated 12VDC output and separated data to power up the non-PoE network devices.

With a DC-Jack connector for an isolated 12VDC power output, this BS412G also provides 2 LED indicators: **BT** and **Vout**. The **BT** LED indicates if the BS412G is powered by IEEE802.3bt PoE Switch or Injector, and the **Vout** indicates if the 12VDC is ON. It saves cost when installing various network devices in varied locations without AC adaptor outlets.

Key Features

- Splitter Output Voltage: 12VDC with max. 48W over PoE CAT5e 100meter distance
- Power Output Current: up to 4A 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 ~ 40°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 12VDC power output

Power over Ethernet

- IEEE 802.3bt/at/af PoE standards compliant PD (Powered Device)
- Supports max. 48watt (12VDC x 4A) isolated power output
- Split the 48~56V DC power over RJ-45 Ethernet cable to 12VDC 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

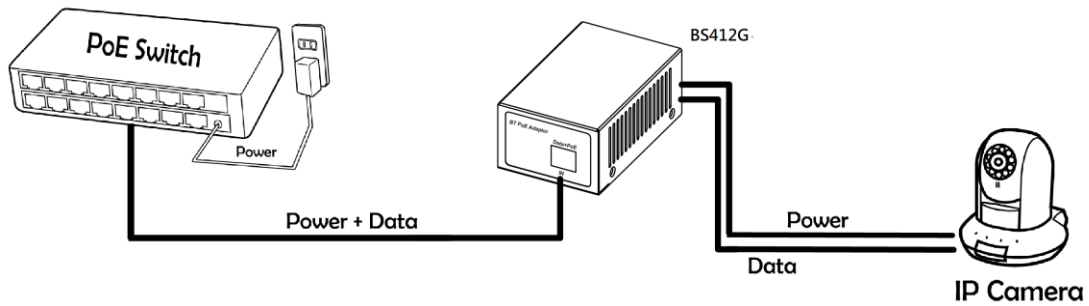
- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX
- IEEE 802.3ab 1000Base-T
- IEEE 802.3bt High Power over Ethernet
- IEEE 802.3at/af Power over Ethernet
- FCC Part 15 Class A, CE

Hardware Specification	
Ethernet Interfaces	Input Port (back Panel) <ul style="list-style-type: none"> ■ 1 x RJ-45 UTP ■ PoE (Data + Power) Input Output Port (front panel) <ul style="list-style-type: none"> ■ 1 x RJ-45 UTP ■ Data Out
LED Indicators	Vout: 12VDC output voltage is ON (Green) BT: PoE Power from IEEE802.3bt source (Green)
PoE Power Source	802.3bt PoE (90W): PU100GB 10/100/1000Base-T: 4-Pair UTP Cat. 5e, 6 up to 100m (328ft)
Network Cable	Midspan PoE (60W): PI300GA, PI300GH, PU100GA 10/100Base-T: 2-Pair UTP Cat. 3, 5, 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. 3, 5, 5e, 6 up to 100m (328ft)
Data Rate	10/100/1000Mbps Auto Sensing
Dimensions (WxDxH)	66 x 104 x 44 mm
Weight	280g
Input Power Source	CAT5e with PoE 48 ~ 56V DC
Max Output Power	48 watts (12V/4A)
Operating Temperature	0 ~ 40°C
Storage Temperature	-10 ~ 70°C
Humidity	20 ~ 95% (Non-condensing)
Power over Ethernet	
PoE Standard	IEEE 802.3bt 90W Power over Ethernet
PoE Power Input	End-Span or Mid-Span auto detection
Power Output	DC 12V / 4A (Max. 48W) for CAT5e 100m distance
Standards Conformance	

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

Application Scenario

Application Scenario



Ordering Information

Part Number	Description
BS412G	10/100/1000M GbE, IEEE802.3bt, 12VDC 4A PoE splitter

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