



IEEE802.3bt PoE Converter

Gigabit Data with 24VDC PoE output

BC524G



Product Overview

The BC524G is a Gigabit Power over Ethernet (PoE) Converter, which converts a Gigabit Ethernet IEEE802.3bt PoE cable into a passive PoE Gigabit Ethernet for an isolated 24VDC with maximum 43W power output. It allows users to run Gigabit speed for CAT5e cables over a 100m distance away from PoE switch while providing an isolated 24VDC output with Gigabit data to power up the passive PoE network devices.

With the isolated 24VDC power output, this BC524G also provides 2 LED indicators: **IN** and **OUT**. The **IN** LED indicates if the BC524G is powered by IEEE802.3bt/at/af PoE Switch, and the **OUT** LED indicates if the 24VDC is ON. It saves cost when installing various passive PoE network devices in varied locations without AC adaptor outlets.

Key Features

- Converter Output Voltage: 24VDC with max 43W over PoE CAT5e 100meter distance
- Power Output Current: up to 1.8A 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 Standard PoE Gigabit to Passive 24VDC with Power Over Ethernet Support
- Wider working temperature of -40°C ~ 75°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 PoE (Data+24V) output
- Max. 43W for 24VDC

Power over Ethernet

- IEEE 802.3bt/at/af PoE standards compliant PD (Powered Device)
- Supports max. 43watt (24VDC x 1.8A) isolated power output
- Convert 48~56VDC PoE over RJ-45 Ethernet into 24VDC passive PoE output
- Power feeding up to 100 meters

Hardware

- Metal case with wall-mounting capability
- LED indicators for IEEE802.3bt/at/af PoE Input and 24VDC Output
- Fan-less thermal diffusion design

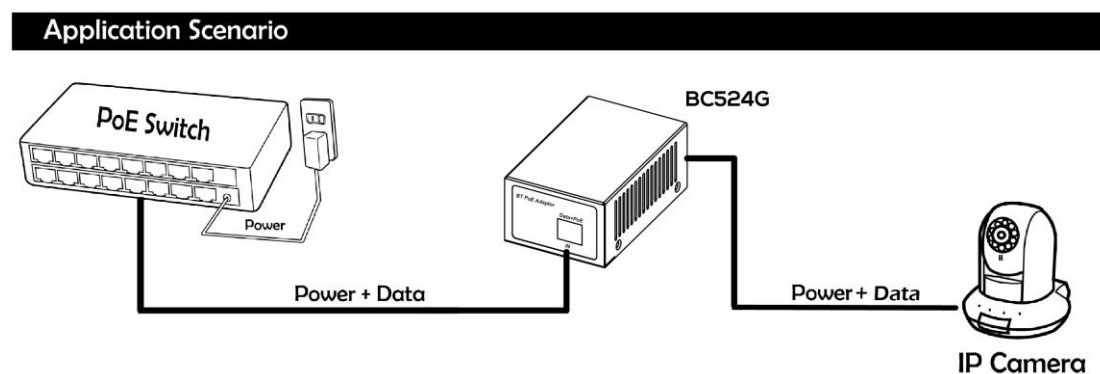
Standard Compliances

- 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 (Front Panel) ■ 1 x RJ-45 UTP ■ PoE (Data + Power) Input Output Port (Back panel) ■ 1 x RJ-45 UTP ■ PoE (Data + Passive 24VDC) Output
LED Indicators	OUT: 24VDC output is ON (Green) IN: PoE Power from IEEE802.3bt/at/af source (Green)
PoE Power Source Network Cable	802.3bt PoE (90W): PU100GB 10/100/1000Base-T: 4-Pair UTP Cat. 5e, 6 up to 100m (328ft) 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)
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	43watts (24V/1.8A)
Operating Temperature	-40°C ~ 75°C
Storage Temperature	-40°C ~ 85°C
Humidity	20 ~ 95% (Non-condensing)
Power over Ethernet	
PoE Standard	IEEE 802.3bt/at/af 90W Power over Ethernet
PoE Power Input	End-Span or Mid-Span auto detection
Power Output	DC24V / 1.8A (Max. 43W) 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 802.3bt High Power over Ethernet
	IEEE 802.3at 30W Power over Ethernet
	IEEE 802.3af Power over Ethernet
	High Power Midspan PoE
Regulation Compliance	FCC Part 15 Class A, CE

Application Scenario



Ordering Information

Part Number	Description
BC524G	10/100/1000M GbE, IEEE802.3bt/at/af, 24VDC 43W PoE Converter
BC519G	10/100/1000M GbE, IEEE802.3bt/at/af, 19VDC 34W PoE Converter

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