

















BC-2016SFPG

1-port 10/100/1000Base-T(X) POE to 1port SFP/LC 1000Base-FX 2Km to 120Km.

The BC-2016SFPG series Industrial POE Media Converter is the ideal solution for powering remote devices such as IP phones, video cameras, wireless access points, alarms, traffic controllers, sensors and tracking devices, etc., which are installed 100m far from a Power over Ethernet switch. In addition to transmitting data, the twisted-pair port also injects power down the cable, allowing a remote Power over Ethernet Device to operate without the need of any additional power source. All Power over Ethernet Powered Devices (IEEE 802.3af/at complaint) are supported, as the BC-2016SFPG series can deliver a full 15.4W / 30W of power to the remote device.

The BC-2016SFPG series is designed to extend the distance of a network by converting Giga Ethernet data between twisted pair cabling and multi-mode or single-mode fiber-optic cabling.

The BC-2016SFPG features a 1000Base-FX fiber port and a 10/100/1000Base-T twisted-pair port. The fiber optic port features SC connector and operating distance from 550m to 120km depending on different Model. The twisted-pair port has an RJ-45 connector with a maximum distance of 100m.

BC-2016SFPG-SFP features a 1000X SFP fiber Port and a 10/100/1000T twisted-pair port. The fiber optic port features a modular SFP slot for any kind of MSA-complaint pluggable 1.25Gbps SFP transceivers.

Many Backbone switch products now support the industry-standard IEEE802.1Q specification for VLANs that send extra-long data packets on the network. The BC-2016SFPG series converters are fully compatible with these long packets, enabling them to be used in modern networks

EMS Standards

IEC61000-4-2(ESD): +8KV (Contact Discharge), +15KV (Contact Discharge)

IEC61000-4-3(RS): 10V/M (80-1000MHZ)

IEC61000-4-4(EFT): power cables +4KV, signal cables +2KV

IEC61000-4-5(Surge): power cables +4KV CM/+ 2KV DM, signal cables + 2KV

IEC61000-4-6(RF coupling): 3V (10KHZ-150KHZ),10V (150KHZ-80MHZ)

IEC61000-4-8(Power Frequency Magnetic Field): 100A/M COUNT 1000A/M 1S TO 3S

IEC61000-4-12/18(Damped Oscillatory Wave): 2.5KV CM, 1KV DM

IEC61000-4-10(conducted disturbances): 30A/M

IEC61000-4-16(common mode): 30V COUNT 300V, 1S

IEC61000-6-2(Electromagnetic compatibility)

IEC61850-3(electrical substation)

IEEE1613 (electric power substations)

EN50121-4(Rail Traffic)

Ordering information

Model	Descriptions
BC-2016SFPG	1-port 10/100/1000Base-T(X) POE to 1port SFP/LC 1000Base-FX 2Km to 120Km.

- · UTP to fiber media converter
- IEEE 802.3af/at complaint
- RJ-45 port support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- · Store-and-forward switching architecture
- Support wide operating temperature (-40 °C ~ +85 °C)
- Wide-range redundant power design (12~56VDC)
- · Power polarity reverse protect
- · Overload current resettable fuse present
- IP-40 protection
- Provide EFT protection for Power line
- Support Ethernet ESD protection
- DIN-Rail and Wall- Mounted Installation

Technical Specifications		
Standards	IEEE802.3 10Base-T,	
	IEEE802.3u 100Base-TX	
	IEEE802.3ab 1000Base-T	
Performance	IEEE802.3z 1000Base-SX/LX standards	
	IEEE802.3x Flow control and back pressure	
	IEEE802.1d Spanning Tree,	
	IEEE802.1Q VLANs	
Copper Port	IEEE 802.3af/at POE	
	Conversion Methods : Store and Forward,	
	MAC Address table: 1Kbit	
Fiber Port	Buffer Space: 288Kbit	
	Time Delay: <20µs	
	Data Rate: 10/100/1000M	
	Connector: RJ45	
	Distance: 100m	
	Data Rate: 1.25G	
	Connector: SC as default, FC/ST/SFP Slot Optional	
	Distance: MMF 550/2km,SMF 20/40/80/100/120km,	
	Bi-di:20/40/80/100/120km	
	PWR1: ON=Power Connected	
LED indicators	PWR2: ON= Power Connected	
	FL/A: ON=Fiber Connected; Active=Data Transmitting	
	TL/A: ON=Copper Connected; Active= Data Transmitting	
	1000M: ON=1000M Data Rate Transmitting	
	POE: ON=Power Working; Off=No Power	
	Input Voltage: 12~56 VDC, redundant power inputs	
Power	Protection: Overload Current; Reverse Polarity	
	Power Consumption: <5W (POE excluded)	
	Connector: Terminal Block	
	Operating Temperature: -40 °C ~ +85 °C	
Environment	Storage Temperature: -40 °C ~ +95 °C	
	Relative humidity: 5-95% (no condensation)	
	Housing: IP40 Protection, Aluminium alloy	
Physical Characteristics	Installation: DIN-Rail , Wall-Mounted	
	Dimension: 115*81*35mm(device); 220*175*73mm(packing)	
	Weight: 0.30kg(device); 0.43kg(device with packing)	