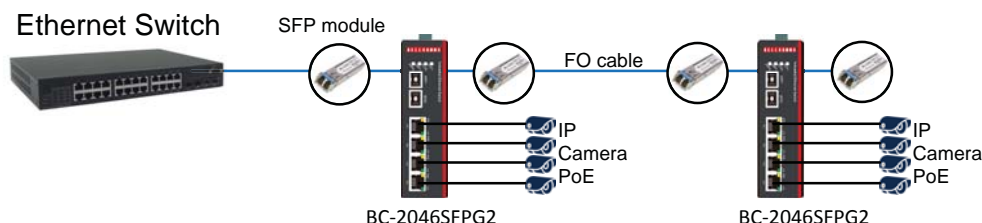


# Gigabit PoE Industrial Ethernet Switch DIN-Rail Managed



## BC-2046SFPG2

4-port 10/100/1000Base-T(X) POE to  
2-SFP port 1000Base-SX/LX/LH/ZX port

### Overview

BC-2046SFPG2 Industrial POE Switch is a High Power Sourcing Equipment (PSE) device that complies with the IEEE802.3af/at standard, providing Power-over-Ethernet over twisted pair cables in an Ethernet network. With Dual Gigabit SFP Slot, the switch is ideal for extending Ethernet over distance via fiber daisy-chain, while also eliminating the need for individual power supply for IP video camera and wireless access points. Extended operating temperature range allows installation in unconditioned outdoor cabinets or industrial environments.

The BC-2046SFPG2 features 2x 1000Base-X SFP Slot and 4 x 10/100/1000Base-T twisted-pair port. The SFP slot port for any kind of MSA-compliant pluggable 1.25G SFP Transceivers, the twisted-pair port has 4 x RJ-45 connector with a maximum operating distance of 100m.

The BC-2046SFPG2 is a high performance and cost-effective industrial un-managed switch that meets the high reliability requirements of industrial network operations. It is designed to extend the distance of network by converting Gigabit Ethernet data between twisted pair cabling and multi-mode or single-mode fiber-optic cabling. The BC-2046SFPG2 series enables real-time deterministic network operation, requires no configuration and will instantly operate as soon as you power it up. Additionally, they can be installed by DIN-rail or wall-mounted, allowing users to deploy any mix of network conversions required.

### 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-2046SFPG2	4-port 10/100/1000Base-T(X) POE to 2-SFP port 1000Base-SX/LX/LH/ZX port

### Features

- Provide 4 x 10/100/1000Base-T(X)
- 2 x 1000Base-X SFP Slot for Daisy-Chain
- IEEE803.3af/at compliant
- RJ45 support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Store-and-forward
- Max packet size: 10K bytes
- Wide-range redundant power design ( 12~56VDC )
- Support wide operating temperature (-40 °C ~ +85 °C)
- 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
- Low power consumption

### Technical Specifications

Standards	IEEE802.3 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-SX/LX standards IEEE802.3x Flow control and back pressure IEEE802.1d Spanning Tree, IEEE802.1Q VLANs IEEE802.3af/at POE
Performance	Processing Type : Store and Forward MAC Table Size: 1024bit Buffer Space: 1Mbit Back bandwidth: 12G Time Delay: <20µs
Copper Port	Data Rate: 10/100/1000M Connector: RJ45 x 4 Distance: 100m
Fiber Port	Data Rate: 1.25G Connector: SFP slot x 2 Distance: Up to SFP Transceivers
LED indicators	PWR1: ON=Power Connected PWR2: ON= Power Connected FL/A: ON=Fiber Connected; Active=Data Transmitting TL/A: ON=Copper Connected; Active= Data Transmitting
Power	Input Voltage: 12~56 VDC, redundant power inputs Power Consumption: <5W ( POE excluded ) Protection: Overload Current; Reverse Polarity Connector: Terminal Block
Environment	Operating Temperature: -40 °C ~ +85 °C Storage Temperature: --40 °C ~ +95 °C Relative humidity: 5-95% ( no condensation)
Physical Characteristics	Housing: IP40 Protection, Aluminum Alloy Installation: DIN-Rail , Wall-Mounted Dimension: 138*107*45mm Weight: 0.50kg