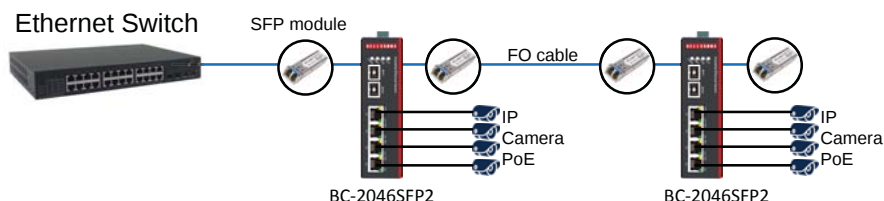


# PoE Industrial Ethernet Switch DIN-Rail Unmanaged



## BC-2046SFP2

4-port 10/100Base-T(X) POE to 2-SFP port 100Base-FX

### Overview

The BC-2046SFP2 series Industrial POE Switch is the ideal solution for powering remote devices such as IP phones, video cameras, wireless access points, alarms, traffic controllers, sensors and tracking devices, 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 compliant) are supported.

The BC-2046SFP2 features 1 or 2x 100Base-FX fiber port and 4 x 10/100Base-TX twisted-pair port. The fiber optic port features SC connector and operating distance from 2km to 120km depending on different Model. The twisted-pair port has 4 x RJ-45 connector with a maximum operating distance of 100m. The BC-2046SFP2-2F provides two SFP slot for any MSA-complaint pluggable 155M SFP transceivers.

The BC-2046SFP2 Industrial Ethernet Switch is designed to stand up to extreme temperature, surges, vibrations, and shocks found in industrial automation, government, military, oil & gas, mining and outdoor applications, such as traffic management, oil and gas pipelines.

The BC-2046SFP2 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-2046SFP2 | 4-port 10/100Base-T(X) POE to 2-SFP port 100Base-FX |

### Features

- 4 x 10/100Base-TX Port to 1 or 2 x 100Base-FX
- IEEE802.3af/at compliant
- 1\*9 fixed fiber module or SFP slot optional
- RJ45 support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Store-and-forward
- Max packet size: 2048bytes
- 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
- Provides EFT protection for Power line
- Support Ethernet ESD protection
- DIN-Rail and Wall-Mounted Installation
- Low power consumption

### Technical Specifications

|                          |                                                                                                                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                | IEEE802.3 10BaseT,<br>IEEE802.3u 100BaseT(X)<br>IEEE802.3x Flow control and back pressure,                                                                                                                 |
| Performance              | Processing Type : Store and Forward<br>MAC Table Size: 1024bit<br>Buffer Space: 512Kbit<br>Back bandwidth: 1G<br>Time Delay: <150µs                                                                        |
| Copper Port              | Data Rate: 10/100M<br>Connector: RJ45 x 4<br>Distance: 100m                                                                                                                                                |
| Fiber Port               | Data Rate: 155M<br>Connector: SC as default, FC/ST/SFP optional<br>Distance: MMF=2km; SMF=20/40/80/100/120km<br>Bi-Di=20/40/80/100/120km                                                                   |
| LED indicators           | PWR1: ON=Power Connected<br>PWR2: ON= Power Connected<br>FL/A: ON=Fiber Connected; Active=Data Transmitting<br>TL/A: ON=Copper Connected; Active= Data Transmitting<br>POE: ON=Power Working; Off=No Power |
| Power                    | Input Voltage: 12~56 VDC, redundant power inputs<br>Power Consumption: <5W ( POE excluded )<br>Protection: Overload Current; Reverse Polarity<br>Connector: Terminal Block                                 |
| Environment              | Operating Temperature: -40 °C ~ +85 °C<br>Storage Temperature: -40 °C ~ +95 °C<br>Relative humidity: 5-95% ( no condensation)                                                                              |
| Physical Characteristics | Housing: IP40 Protection, Aluminum Alloy<br>Installation: DIN-Rail , Wall-Mounted<br>Dimension: 138*107*45mm<br>Weight: 0.50kg                                                                             |