

SC12FEISG Series Gigabit Industrial Media Converter User Manual

I. Overview

SC12FEISG Series Gigabit industrial media converter is used for data communication between 1000Base-TX twisted-pair & 1000Base-FX; it is the best choice for smart community or fiber to desktop applications. It is 10/100/1000Mbps auto negotiation, easy to upgrade. SC12FEISG Series extend the transmission distance from 100m to more than 1,000km, which makes the connection of server, relay, hub, terminals easily.

II. Specification

Standards:

- IEEE 802.3 10BaseT
- IEEE 802.3u 100BaseT(X) and 100BaseFX
- IEEE 802.3ab 1000BaseT(X)
- IEEE 802.3z

Ports:

Gigabit Ethernet port: 1 Gigabit RJ-45, 10/100/1000Base-T, auto negotiation

Fiber port: 1 fiber port, 1000Base-X

LED indication: PWR, FDX, ACT, LINK

Power requirement:

Power input: 12/24/48VDC(10.8~52.8VDC)

Power consumption: 100mA@24Vmax

Terminal block: 1 pluggable 3-pin terminal block

Overload protection: Yes

Reverse polarity protection: Yes

Mechanical characteristics

IP rating: IP30

Installation: DIN-Rail/wall-mounted

Industry standards:

EMI: FCC Part 15 Subpart B class A, EN55022 class A

EMS:

IEC(EN)61000-4-2(ESD)

IEC(EN)61000-4-3(RS)

IEC(EN)61000-4-4(EFT)

IEC(EN)61000-4-5(Surge)

IEC(EN)61000-4-6(CS)

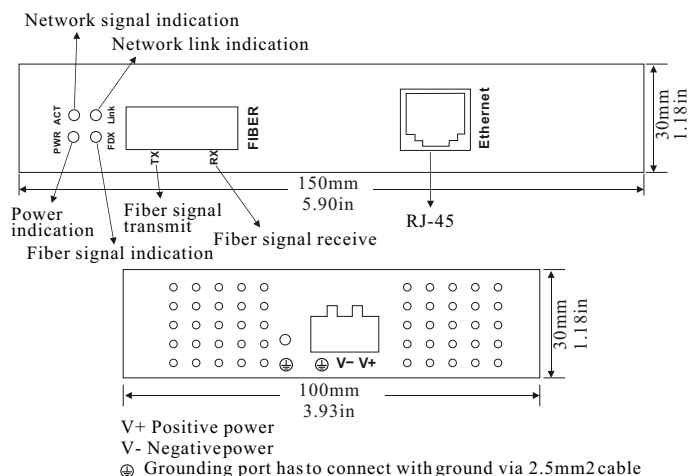
IEC(EN)61000-4-8

IEC 60068-2-27(Shock)

IEC 60068-2-32(Freefall)

IEC 60068-2-6(Vibration)

Side View



III. Technical Standards

1. Technical standards

Indicator parameters	Technical parameters					
	Multi-mode	Single-mode				
Dual-fiber transmission wavelength	850	1310	1310	1550	1550	
Single-fiber transmission (T style)	Transmission wavelength nm	1310	1310	1310	1490	1490
	Receiving wavelength nm	1550	1550	1550	1550	1550
Single-fiber receiving	Transmission wavelength nm	1550	1550	1550	1550	1550
	Receiving wavelength nm	1310	1310	1310	1490	1490
Transmission distance km	0.55	20	40	80	120	
Transmission power dBm	-9~-3	-9~-3	-2~3	-2~3	-1~4	
Receiving sensitivity dBm(≤)	-17	-23	-23	-24	-32	
Light saturation dBm	-3	-3	-3	-3	-3	
Light loss dBm/km (According to Fiber)	0.5	0.5	0.3	0.25	0.25	
Fiber port type	with optional SC, FC, ST					
Transmit and receive data rate	1000Mbps, 100Mbps, 10Mbps					
Cache	1MB					
Operating mode	Full/hard duplex					
Power requirement	12/24/48VDC(10.8~52.8VDC)					
Operating temperature	-40~85°C					
Storage temperature	-40~85°C					
Relative humidity	5%~90%					
Dimension	150mm × 100mm × 37mm (L×H×D)					

2. Fiber connection features

① Fiber transmission

Multi-mode: 50/125, 62.5/125

Single-mode: 8.3/125, 8.7/125, 9/125, 10/125 μm

② Transmission distance

Multi-mode: 0.55Km

Single-mode: 20Km (40km, 60km, 80km 100km, 120km can be customized.)

Connection cable UTP6: 100m

IV. Installation

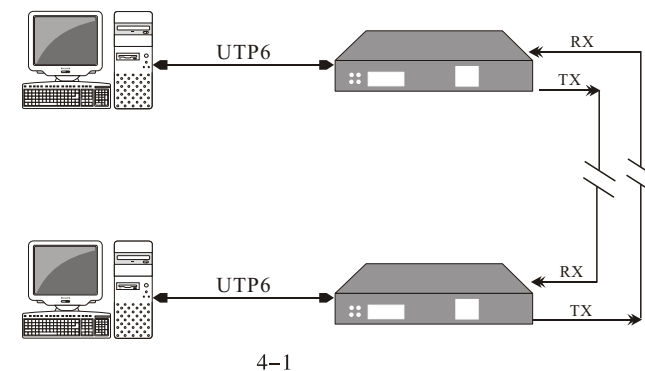
1. Check the package

Open the package, check with below table; if any defects, please contact local dealer

Name	Gigabit media converter	Warranty card	User manual	Certificate	Screw	DIN-Rail	Fixed stator
Qty	1	1	1	1	9	1	1Pair

2. Installation

Install it according to the installation diagram



3. Operating status

LED status

■ PWR: indicator light means power supply is connected and working.

■ LINK: The LED is normally OFF. It will come ON when the Ethernet cable is connected & data is on Gigaspeed.

■ FDX: indicator light means fiber connection is correct, and if the light blinking, it means data transmission.