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## 2 Port Industrial Grade Media Converter, SC12FE2IS

### Overview



SC12FE2IS is an Industrial grade Media Converter with 2 \* 10/100Mbps RJ45 ports and 1 Fiber port. With 10/100 Mbps, Auto Negotiation, it extends the transmission distance from 100m to many Km's easily. It adopts industrial design, fanless, low power consumption, and great EMC protection. The working temperature range is -40 to 85°C. The reverse polarity protection prevents from damage. It supports industrial standard DIN-Rail installation or wall-mounted installation. It can be widely used in the field of Power, Railways, Mines, CCTV Surveillance and other industrial automation fields.

### Feature

- 2 x 10/100Base-T(X) Ethernet ports & 1 x 100Base-FX fiber port
- Supports Full-duplex or Half-duplex mode
- 10/100Mbps, Auto negotiation
- Auto MDI/MDI-X
- Built-in Store-and-Forward system, Cache 512KB
- Transmission packet : 1536 bytes
- MTBF>400,000 hours
- Power: DC12/24/48V
- SC connector ( optional ST, FC, LC )

### Specification

#### Standards

IEEE 802.3, IEEE802.3u  
 IEEE 802.3x Flow Control & Back Pressure

#### Ports

RJ45 port : 2x 10/100Base-T(X) port, Auto detection, Full/Half-duplex, Auto MDI/MDI-X  
 Fiber port : 1x 100Base-FX port (with optional SC, ST, FC & LC)  
 LED indicators: PWR, FDX

#### Fiber-optic feature

Indicator Parameter	100Base FX		
	Multi-mode	Single-mode	
Tx Wavelength (nm)	1,310	1,310	1,550
Typical distance (km)	5	20	Upto 120
Tx Power (dBm)	-5 to -18	-12 to -2	-12 to -2
Rx Sensitivity (dBm)	≤ -32	≤ -35	≤ -35
Light Saturation (dBm)	-3	-3	-3
Optical loss dBm/Km	0.5	0.4	0.25

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**Transmission fiber**

Multi-mode : 50/125, 62.5/125  
Single-mode : 8.3/125, 8.7/125, 9/125, 10/125µm

**Transmission distance**

Multi-mode : 2km  
Single-mode : 20km, with optional 40Km, 60Km, 80km, 120km  
UTP5 : 100m

**Power requirement**

Input voltage : DC12/24/48V, 500mA @ 24V DC  
Terminal block : 1 pluggable 3-pin terminal block  
Overload protection : Yes  
Reverse polarity protection : Yes

**Mechanical characteristics**

IP rating : IP40  
Installation : DIN-Rail  
Dimension : 35mm×100mm×80mm (W x H x D)

**Environment**

Operating temperature : -40 to 85°C  
Storage temperature : -40 to 85°C  
Relative humidity : 5 to 95% (non-condensing)

**Industrial standards tested for**

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

EMS :

IEC (EN) 61000-4-2(ESD), level 3  
IEC (EN) 61000-4-3(RS), level 3  
IEC (EN) 61000-4-4(EFT), level 3  
IEC (EN) 61000-4-5(Surge), level 3  
IEC (EN) 61000-4-6(CS), level 3  
IEC (EN) 61000-4-8  
IEC 60068-2-27(Shock)  
IEC 60068-2-32(Freefall)  
IEC 60068-2-6(Vibration)

**Product Selection Code : SC12FE2IS M/SXXX SC/ST**

SC12FE2IS : Base Model, 2 \* Ethernet & 1 \* Fiber port  
M/SXXX : M : Multimode, S : Single Mode, XXX = 020, 040, 080, 100Kms (For Singlemode)  
SC / ST : SC = SC Connector, ST = ST Connector

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### Dimension

