IS-1SF6002 Series
2-Port 10/100Base-TX to 100Base-FX Industrial Media Converter

Distance extending Slim Type with more Practicability and Convenience

CRED 10/100Base-TX to 100Base-FX Industrial Media Converter, extends communication distance with stable performance via fiber optic wire, in which the extended distance could be up to 2km with the IS-1SF6002-SC2, up to 20km with the IS-1SF6002-SC20 .

The IS-1SF6002 series is specifically equipped with durable components and strong housing case to operate reliably in electrically harsh and climatically demanding environments. The industrial level media converter provides a high level of immunity to electromagnetic interference and heavy electrical surges which are usually found on plant floors or traffic control cabinets on sidewalk. Being able to operate under the temperature range from -40℃ to 85℃ allows the IS-1SF6002 series to be placed in almost any difficult environment.

CRED IS-1SF6002 series 10/100Base-TX to 100Base-FX Industrial Media Converter series efficiently converts data between 10/100Base-TX and 100Base-FX network. The IS-1SF6002 series provides the flexibility to all kinds of 10/100Mbps Ethernet Media on RJ45 port and performs highly stable fiber performance.

The IS-1SF6002 series is packaged in a compact IP40 case that allows either DIN rail or panel mounting to have efficient usage of cabinet space. It provides an integrated power supply with a wide range of voltages for worldwide operation. It also offers dual-redundant, reversible polarity 12V DC to 52V DC power supply inputs for high availability applications requiring dual or backup power inputs.

Interface
- 2-port 10/100Base-Tx RJ45 with auto negotiation and auto-MDI/ MDI-X function
- 1-port 100Base-Fx interface SC/FC/ST/SFP
- Multi-Mode up to 2km
- Single-Mode up to 20km/40km/60km/80km

Industrial conformance
- 12V to 52V DC, redundant power input
- -40℃ to 85℃ operating temperature
- IP40 aluminum housing
- Supports 6KV DC Ethernet ESD protection
- Supports 6KV DC EFT protection for power line
- Free Fall, Shock and Vibration Stability
- DIN-rail and wall-mountable hardware design

Specifications:

Model No.	**IS-1F6002-SC2 / IS-1F6002-SC20 / IS-1SF6002**
10/100Base-TX Port	2 port RJ-45 auto-MDI / MDI-X
100Base-FX Port	IS-1F6002-SC2: 1 SC interface IS-1F6002-SC20: 1 SC Interface IS-1SF6002: 1 SFP Slot
Fiber Port Type	IS-1F6002-SC2: SC / multi-mode ,up to distance 2km ; IS-1F6002-SC20: SC / single-mode ,up to distance 20km ; IS-1SF6002: Vary on module
Optical Frequency	IS-1F6002-SC2: 1310nm IS-1F6002-SC20: 1310nm IS-1SF6002: Vary on module
Performance Specification	Bandwidth: 1.6Gbps Packet Buffer Memory:1Mbit Packet Forwarding Rate:1.2Mpps MAC Address Table: 2K
Installation	DIN rail
Maximum Frame Size	9000bytes packet size
Flow Control	Back pressure for half duplex, IEEE 802.3x pause frame for full duplex
Enclosure	IP40 aluminum housing
LED Indicator	Power: Red Fiber: Link 2(Green) Ethernet: Yellow
Power Input	12 to 52V DC redundant power
Power Consumption	< 3 watts
Surge protection	±4KV
Network Protocols	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u;100Base-TX/FX; IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X;

	IEEE802.3x;
Network cables	10BASE-T: Cat3,4,5 UTP(≤100 meter)
	100BASE-TX: Cat5 or later UTP(≤10meter)
	1000BASE-TX: Cat6 or later UTP(≤100 meter)
Industry Standard	FCC CFR47 Part 15,EN55022/CISPR22, Class A
	IEC61000-4-2 (ESD): ±8kV (contact), ±12kV (air)
	IEC61000-4-3 (RS): 10V/m (80~1000MHz)
	IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV
	IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV
	IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)
	IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)
Certification	CE FCC Rohs compliance
MTBF	>300,000hours
Dimensions (W x D x H)	118 x 86 x 33.5 mm
Weight	Product Weight: 0.36KG
	Packing Weight: 0.46KG
Working Environment	Working temperature: -40～85℃ ;
	Storage temperature: -40～85℃
	Relative Humidity: 5%~95 %(no condensation)
Warranty	1-year replacement with new item; 3-years for main parts.

Dimensions