V1.0 Sep, 2016

ISC-1310FB

Industrial 1-port RS-232/422/485 to Fiber serial media converter

Features

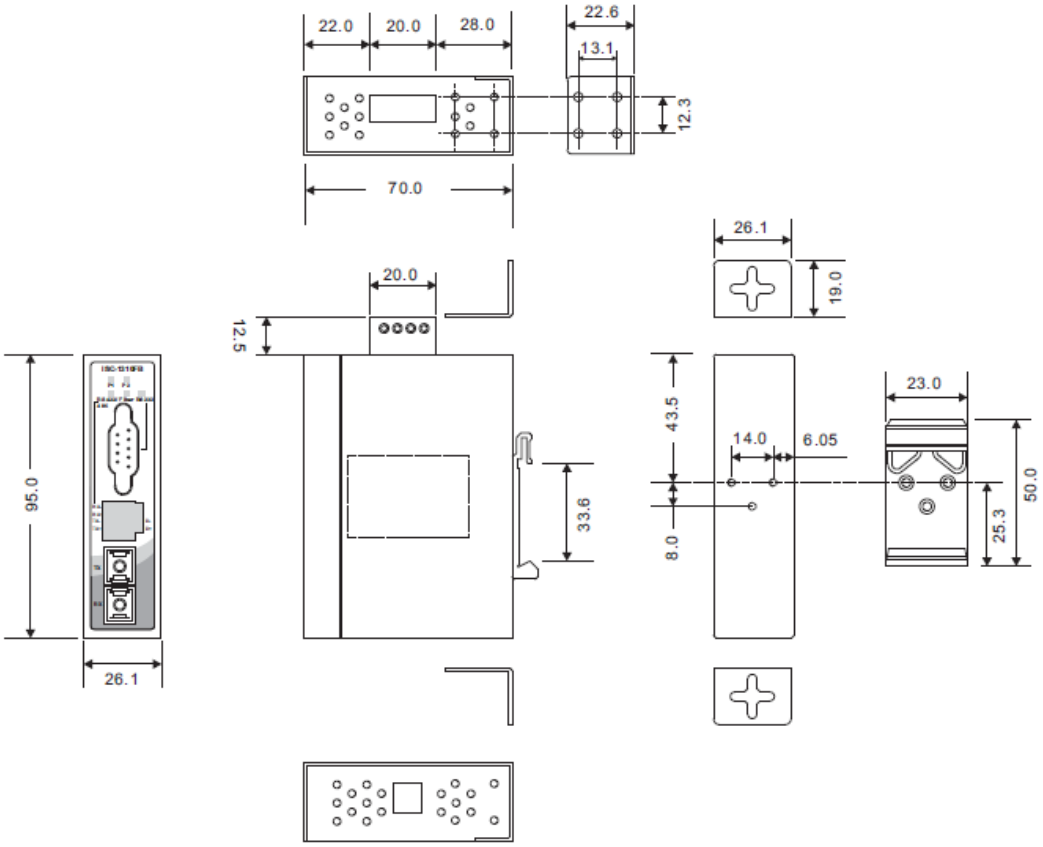
- Supports multiple baud rate and multiple data format
- Support Full-Duplex transmission for RS-232/RS-422
- Auto switching baud rate from 50~921.6 Kbps
- Power requirement from +12 ~48 VDC
- Provided DIP-Switch to setting function
- IP-30 housing design
- DIN-Rail and wall mounting enabled



Introduction

ISC-1310FB is a cost-effective solution for the conversion between RS-232/422/485 and 100Base-FX interface, it allows you to extend the serial communication distance by optical fiber. ISC-1310FB series with wide operating temperature range from -40 ~ 70oC and accepts a wide voltage range from 12~48 VDC power inputs, so it is suitable for harsh operating environments

Dimension (Unit =mm)



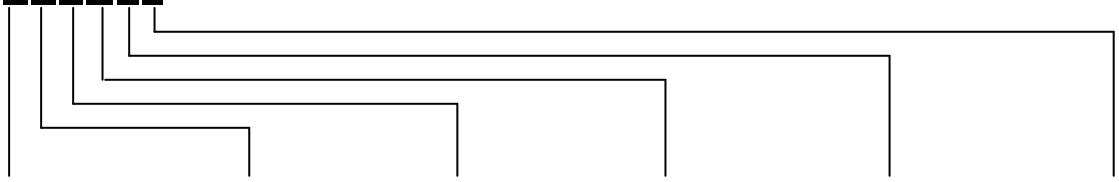
Specifications

ORing Media Converter Model	ISC-1310FB-MM	ISC-1310FB-SS
Fiber Port		
Fiber Port Number	**1**	
Fiber Port Speed	100Base-FX	
Fiber Optical Connector	SC	
Fiber Mode	Multi-mode	Single-mode

Typical Distance (km)	2 Km	30 Km
Wavelength (nm)	1310 nm	1310 nm
TX Output	>-23.5 dbm	>-15 dbm
RX sensitivity	-31 dbm	-34 dbm
Point-to-point transmission	Full-Duplex	
Serial Port		
Connector	DB9(male) x 1, terminal block x 1	
Operation Mode	RS-232 / RS-422 / 4(2)-Wire RS-485. Which RS-422/ RS-485 can be configured by DIP switch	
Serial Baud Rate	50 bps to 921.6 Kbps	
Data Bits	5, 6, 7, 8	
Parity	odd, even, none, mark, space	
Stop Bits	1, 1.5, 2	
RS-232	TxD, RxD, GND	
RS-422	Tx+,Tx-, Rx+, Rx-,GND	
RS-485 (4-wire)	Tx+,Tx-, Rx+, Rx-,GND	
LED Indicator		
Power indicator	2 x LEDs, Green On : Power is on and functioning Normal	
1x 100Base-FX with SC connector	1 x LED, Green for port Link/Act at 100Mbps	
Serial RS-232	1 x LED, Green for port Link/Act	
Serial RS-422/485	1 x LED, Green for port Link/Act	
Power		
Input Power	Dual DC inputs. 12~48VDC on 4-pin terminal block	
Power Consumption (Typ.)	1.8 Watts	
Overload current protection	Present	
Physical Characteristic		
Enclosure	IP-30	
Dimension (W x D x H)	26.1 (W) x 70 (D) x 95 (H)mm (1.03 x 2.76 x 3.74 inch)	
Weight (g)	192 g	
Environmental		
Storage Temperature	-40 to 85ºC (-40 to 185ºF)	
Operating Temperature	-40 to 70ºC (-40 to 158ºF)	
Operating Humidity	5% to 95% Non-condensing	
Regulatory approvals		
EMC	EN 55022, EN 55024(CE EMC), EN 50121-4,EN 60945, FCC ,EN 61000-6-2, IEC 61000-3-2 ,IEC 61000-3-3	
EMI	CISPR 22, EN 55011, FCC Part 15B Class A	
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8 (PFMF), EN61000-4-11 (DIP)	
Shock	IEC60068-2-27	
Free Fall	IEC 60068-2-31 (IEC 60068-2-32)	
Vibration	IEC60068-2-6	
Safety	EN60950-1	
MTBF		
Warranty	5 years	5 years

Ordering Information

ISC- A B C D E F



Code Definition	Serial port number	Serial Type	Converter port number	Converter Type	Other type	Additional function
Option	**- 1 :** 1 port	**- 1:** RS-232 **- 2** : RS-422/485 **- 3** : RS-232/422/485	**- 1 :** 1 port	- 0 : other type - 1 : RS-232 - 2 : RS-422/485 - 3 : RS-232/422/485	**- F** : 100Base-FX Fiber **- U** : USB	**- B** : Compact Size

	Model Name	Description
Available Model	**ISC-1310FB-MM**	Industrial 1-port RS-232/422/485 to Fiber serial media converter, multi-mode, 2Km/1310nm
	ISC-1310FB-SS	Industrial 1-port RS-232/422/485 to Fiber serial media converter, single-mode, 30Km/1310nm

Packing List

- **ISC-1310FB x 1**
- **Quick Installation Guide x 1**
- **Wall-mount Kit x 1**
- **DIN-Rail Kit x 1**