



HC-SERIAL-SFP

RS-232/422/485 to SFP slot
Industrial Fiber Media Converter Set

The HC-SERIAL-SFP is a set of 2 matched fiber media converters that can operate over one single strand of SMF (up to 20km) or MMF (up to 500m). The set transports 2 serial ports, RS-232 and RS-422/485 simultaneously over fiber. The two units are non-managed Industrial Fiber Media Converters, hardened for extreme operating temperatures: -40 to +75 Celsius. Industrial Converters are housed in IP40 rated rugged metal housings designed to operate in difficult conditions, including mechanically and electrically extreme environments. All Industrial converters have strong surge protection (8kV~15kV) per port, depending on models and strict compliance with IEC and EN standards for industrial grade equipment.

Features

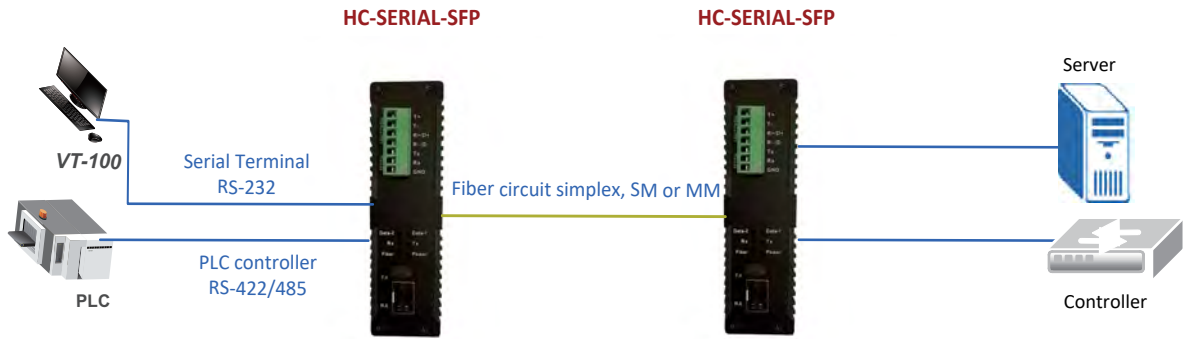
- set of two matching units over one strand of SM or MM fiber
- Max. reach 20Km over SMF or 500m over MMF
- DC power input block 12-60V (redundant)
- Extreme operating temperature: -40 to +75 Celsius
- Rugged IP40 rated metal casing with DIN rail bracket
- Automatic speed detection, max. rate 230.4kbps
- Reversed power polarity protection
- Hardened against EMI and heavy particle/chemical contaminated environment
- Supports 8kV and 1500W surge protection per serial port
- Supports any type of 155M SFP (Fast Ethernet): MM, SM, BiDi, CWDM or DWDM, including very long haul (120Km) type
- Redundant DC power inputs

Specifications

Interfaces	RS-232 3 wire interface (Tx, Rx, GND) RS-485 2 wire and 4 wire interface RS-422 4 wire interface (available on a 7 pin block connector)
Fiber Port	155M SFP slot, accommodates any type of SFP; included are BiDi SFPs good for 20Km SMF and 500m MMF operation
Fiber Connector	LC simplex type
Data Rates	any serial data rate supported (incl. non-standard), up to 230.4kbps
Ports available	2 (one RS-232 and one RS-485/422) can be used simultaneously
Reach	50 feet for RS-232 4000 feet for RS-422/RS-485
RS-485 specs	1 kΩ pull-up resistor 150 kΩ pull-down resistor 120 Ω terminating resistor
LED	Power Tx RS-485/422, Rx RS-485/422 Tx RS-232, RX RS-232 FX Link (6 LED indicators)
Power Supply	Redundant Dual DC 12/24/48V (12~60VDC) Input power (Removable Terminal Block)
Power Consumption	<3W
Removable Terminal Block	Provide 2 Redundant power inputs, 6 Pin
Operating Temperature	-40 ~ 75°C

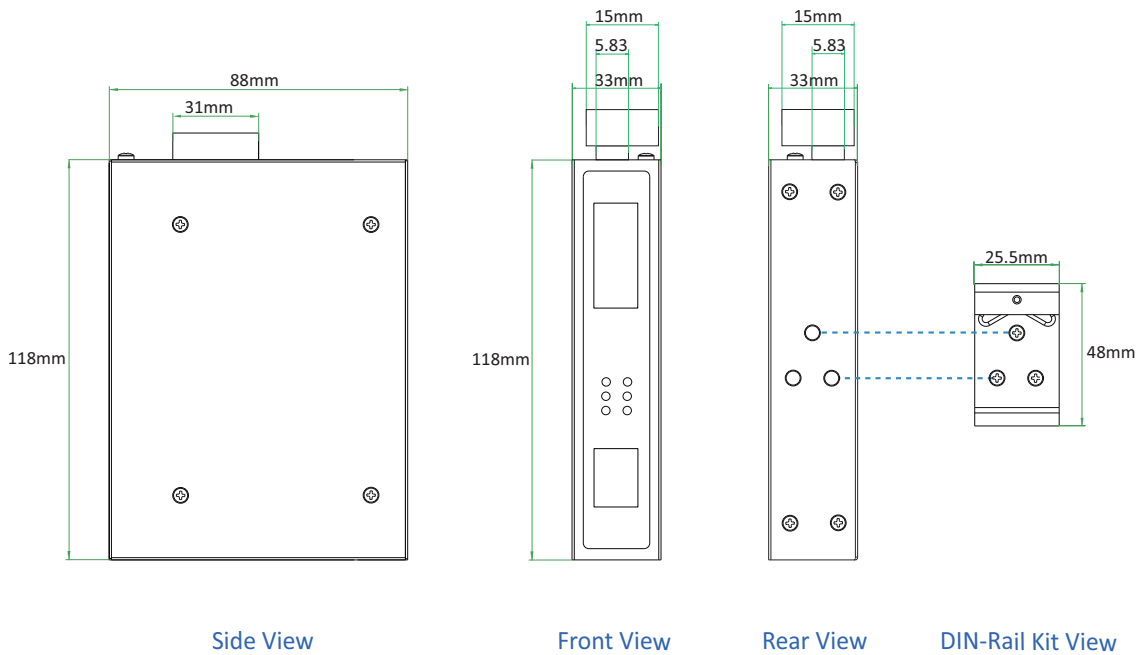
Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40 ~ 85°C
Housing	Rugged Metal, IP40 Protection
Dimensions	88 x 33 x 118mm (D x W x H)
Weight	0.38kg/unit (12oz.)
Installation Mounting	DIN Rail mounting or wall mounting
EMI	FCC Part 15 Subpart B Class A, CE EN 55022 Class A EN61000-6-4 – Emission for industrial environment
EMS	EN61000-6-2 – Immunity for Industrial environment EN61000-4-2 (ESD) Level 3, Criteria B EN61000-4-3 (RS) Level 3, Criteria A EN61000-4-4 (Burst) Level 3, Criteria A EN61000-4-5 (Surge) Level 3, Criteria B EN61000-4-6 (CS) Level 3, Criteria A EN61000-4-8 (Magnetic Field) Level 3, Criteria A
Traffic control	NEMA-TS2
Rail Traffic	EN50121-4
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6
MTBF	100,000Hrs
Warranty	3 years

Application



HC-SERIAL-SFP RS-232/RS-485 extension over fiber application

Dimensions



Ordering Information

Model Name	Description
HC-SERIAL-SFP	1x RS-232 and 1x RS-422/485 to single strand fiber non-managed Industrial Fiber Converter Set
	Extreme Temp. (-40~75 Celsius), LC simplex connectors, max. reach 20Km over SMF or 500m over MMF