



## 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

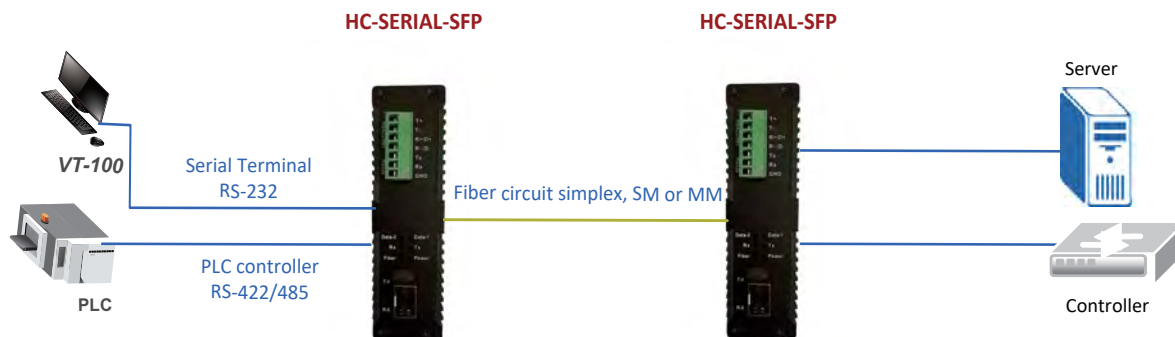
- set of two matching units over one strand of SM or MM fiber
- Max. reach 20Km over SMF or 500m over MMF
- DC power input block 12-60V (redundant)
- Extreme operating temperature: -40 to +75 Celsius
- Rugged IP40 rated metal casing with DIN rail bracket
- Automatic speed detection, max. rate 230.4kbps
- 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

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

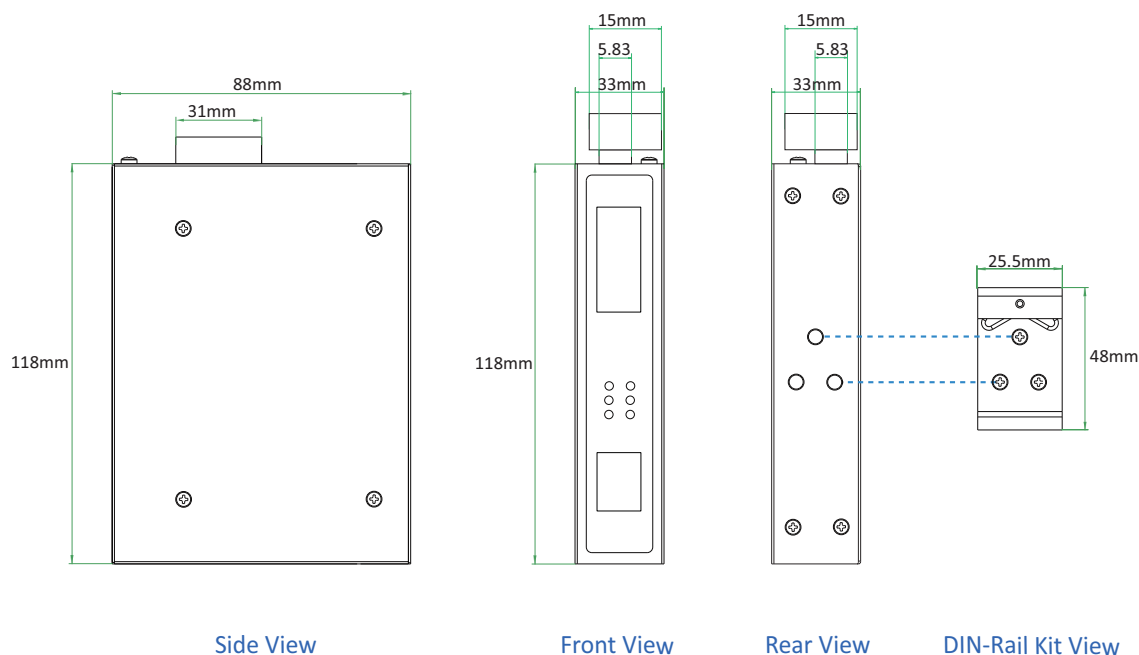
<b>Operating Humidity</b>	5% to 95% (Non-condensing)
<b>Storage Temperature</b>	-40 ~ 85°C
<b>Housing</b>	Rugged Metal, IP40 Protection
<b>Dimensions</b>	88 x 33 x 118mm (D x W x H)
<b>Weight</b>	0.38kg/unit (12oz.)
<b>Installation Mounting</b>	DIN Rail mounting or wall mounting
<b>EMI</b>	FCC Part 15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