

Item no.: 386163

## ICF-1150-S-SC-T - Industrial RS-232/422/485 to single-mode fibre optic converter, SC connector, -40 to 85C

from **568,97 EUR**

Item no.: 386163  
shipping weight: 0.40 kg  
Manufacturer: MOXA



### Product Description

**Introduction**The ICF-1150 serial-to-fibre converters transmit RS-232/RS-422/RS-485 signals to fibre optic ports to increase the transmission range. When an ICF-1150 device receives data from any serial port, it transmits the data via the fibre optic ports. These products not only support singlemode and multimode fibres for different transmission distances, but models with isolation protection are also available to increase interference immunity. The ICF-1150 products feature three-way communication and a rotary switch to adjust the pull high/low resistance for field installation.

**Three-way communication**The ICF-1150 series supports 2 serial ports with a DB9 connector for RS-232 communication and a detachable terminal block for RS-422 or RS-485 communication. The 3 ports (2 serial ports and one fibre optic port) are completely independent of each other. When an ICF-1150 converter receives data from one of the ports, it sends the data via the other 2 ports. For example, when the ICF-1150 converter receives a command from the remote master via the fibre optic port, it converts the signal and sends the command via the RS-232 and RS-422/485 ports simultaneously. If the user is monitoring a system running on an RS-485 network, there is no need to use an additional RS-232 to RS-485 converter to connect the laptop's serial port to the RS-485 bus.

**Rotary switch for setting the pull high/low resistance**The RS-485 interface supports multidrop or daisy chain connections, which are used by system engineers to connect serial devices such as counters, RTUs and readers together to the same bus. As the impedance of the data line increases with the number of serial devices on the same bus, the ICF-1150 allows the user to adjust the pull high/low resistance. Simply turn the switch to the appropriate value without removing the ICF-1150 from the DIN rail.

**Serial interface- Number of ports: 2-** Serial standards: RS-232, RS-422, RS-485- Baud rate: 50 bps to 921.6 kbps (supports non-standardised baud rates)- Flow control: ADDC (automatic data direction control) for RS-485- Connector: DB9 socket for RS-232 interface, 5-pin terminal block for RS-422/485 interface, fibre optic connectors for RS-232/422/485 interface- Insulation: 2 kV (I models)- Optical fibre- Pull high/low resistance for RS-485: 150 kilo-ohms, 10 kilo-ohms, 4.7 kOhm, 3.3 kOhm, 1 kOhm, 909 ohm, 822 ohm, 770 ohm, 500 ohm, 485 ohm- RS-485 data direction control: ADDC (automatic data direction control)- Terminating resistor for RS-485: N/A, 120 Ohm, 120 Kilo-OhmSerial signals- RS-232: Tx, Rx, GND- RS-422: Tx+, Tx-, Rx+, Rx-, GND- RS-485-4w: Tx+, Tx-, Rx+, Rx-, GND- RS-485-2w: Data+, Data-, GNDPower parameters- Input current: ICF-1150 series: 264 mA @ 12 to 48 VDC, ICF-1150I series: 300 mA @ 12 to 48 VDC- Input voltage: 12 to 48 VDC- Number of current inputs: 1- Overload current protection: Supports- Power connection: terminal block- Current consumption: ICF-1150 series: 264 mA @ 12 to 48 VDC, ICF-1150I series: 300 mA @ 12 to 48 VDCPhysical characteristics- Housing: Metal- Ingress Protection: IP30- Dimensions: 30.3 x 70 x 115 mm (1.19 x 2.76 x 4.53 in)- Weight: 330 g (0.73 lb)- Mounting: DIN Rail MountingEnvironmental Limits- Operating Temperature: Standard Models: 0 to 60°C (32 to 140°F), Wide Temp. Models: -40 to 85°C (-40 to 185°F)- Storage temperature (including packaging): -40 to 85°C (-40 to 185°F)- Ambient Relative Humidity: 5 to 95% (non-condensing)Standards and Certifications- EMC: EN 55032/35- EMI: CISPR 32, FCC Part 15B Class AEMS- IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV- IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m- IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV- IEC 61000-4-5 Surge: Power: 4 kV; Signal: 1 kV- IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m- IEC 61000-4-8 PFMF- Environmental testing: IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-3- Safety: UL 61010-2-201- Vibration: IEC 60068-2-6- Hazardous areas: IEX models: UL/cUL Class I Division 2 Groups A/B/C/D, ATEX Zone 2, IECEx, all other models: UL/cUL Class I Division 2 Groups A/B/C/D, ATEX Zone 2MTBF- Time: 792,085 hours- Standards: Telcordia (Bellcore), GB

### Specifications

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prices and availability

