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STF-401C Series

Compact 1-Port RS-232/422/485 Serial to 100Fx Fiber Converter



CE FC A

Overview

Features

- Fan-less and Din-Rail design for Harsh Industrial Environment
- ▶ Built in 1Port RS232(DB9) or RS422/485(Terminal Block) Serial Port
- ▶ Supports SC or ST Multi-mode 2Km, Single-mode 30Km
- ▶ Dip Switch to Change RS-485 Data Signals Pull High/Low Resistor
- Supports Input Voltage 9 ~ 48VDC
- Supports Reverse Polarity Protection
- Wide Range Operating Temperature Supports: -40 to 70°C
- Applicable with Point-to-Point, Half Duplex Single Ring Topology Serial Fiber Daisy Chain Network application
- 5-Year Warranty

The STF-401C series Compact Industrial Serial-to-Fiber Media Converter Series provides a solution to extend any RS-232 or RS-422/485 serial device data transmission distance with 100Fx Fiber (SC or ST connector) options via Multi-Mode in 2Km or Single-Mode in 30Km. It features a Din-Rail Type design to give users an easy installation and maintenance purpose in any harsh industrial environments.

A perfect solution for any single "Point-to-Point" applications with

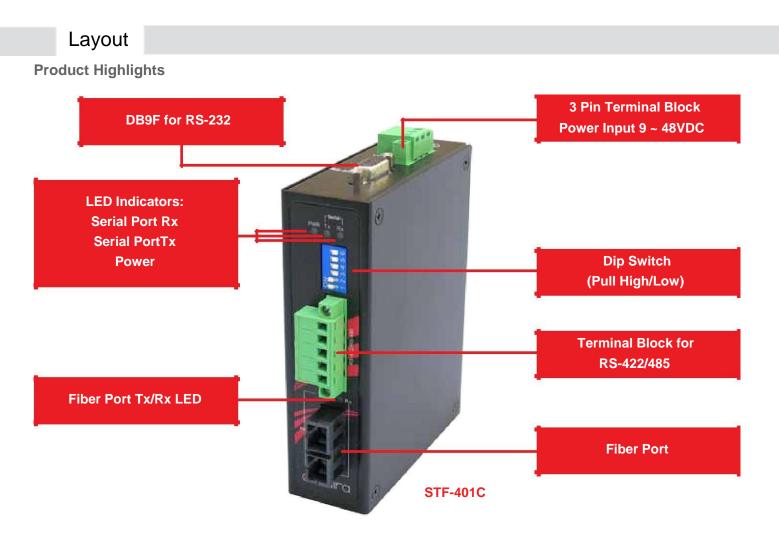
- Industrial manufacturing in Factory Automation;
- Remote sensing and signaling/metering in ITS;
- EMI resistant for IEDs data transmission in Substation Automation;
- Industrial Control in Process Control Automation, such as WWTP and Oil/Gas/Mining



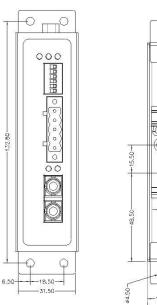
Specifications

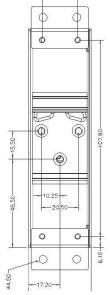
| C or ST Aulti-Mode: 50/125um, 62.5/125um single-Mode: 9/125um Fiber Port Aulti-Mode: 2km single-Mode: SC 30km 310nm Aulti-Mode: -14 ~ -23.5 dBm @ 50/125µm / -14~-20 dBm @ 62.5/125µm single-Mode: -8 ~ -15 dBm Aulti-Mode: -31 dBm single-Mode: - 32 dBm S-232 - TxD, RxD, GND (DCD, DTR, DSR internal short ; CTS, RTS internal short) S-422-4w - TxD+, TxD-, RxD+, RxD-, GND S-485-2w - Data+, Data-,GND |
|--|
| Aulti-Mode: 50/125um, 62.5/125um ingle-Mode: 9/125um Fiber Port Aulti-Mode: 2km ingle-Mode: SC 30km 310nm Aulti-Mode: -14 ~ -23.5 dBm @ 50/125µm / -14~-20 dBm @ 62.5/125µm ingle-Mode: -8 ~ -15 dBm Aulti-Mode: -31 dBm ingle-Mode: - 32 dBm S-232 - TxD, RxD, GND (DCD, DTR, DSR internal short ; CTS, RTS internal short) IS-422-4w - TxD+, TxD-, RxD+, RxD-, GND IS-422-4w - TxD+, TxD-, RxD+, RxD-, GND |
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| S-422-4w - TxD+, TxD-, RxD+, RxD-, GND S-485-2w - Data+, Data-,GND |
| |
| 00bps ~ 921kbps |
| I/A |
| 5KV |
| bip Switch adjustment |
| |
| ~ 48VDC |
| .52W - @0.28A max, 9 VDC |
| emovable 3-pin Screw Terminal Block |
| teverse Polarity Protection |
| |
| letal, IP50 Protection |
| 4.4 x 91.2 x 120mm (1.35 x 3.59 x 4.72 in) |
| 00g |
| IN-Rail Mounting, Wall Mounting Kits (Optional) |
| |
| 40°C ~ 70°C (-40°F ~ 158°F) |
| 40°C ~ 85°C (-40°F ~ 185°F) |
| to 95%, 55°C (Non-Condensing) |
| |
| CC Part15, CISPR (EN55022) Class A |
| N61000-4-2 (ESD) Level 4, Criteria B N61000-4-3 (RS) Level 3, Criteria A N61000-4-4 (EFT) Level 3, Criteria A N61000-4-5 (Surge) Level 3, Criteria B N61000-4-6 (CS) Level 3, Criteria A |
| hock: MIL-STD-810F Method 516.5 ree Fall: MIL-STD-810F Method 516.5 fibration: MIL-STD-810F Method 514.5 C-1 & C-2 |
| toHS Compliant |
| 16,388 Hours |
| CC, CE |
| |

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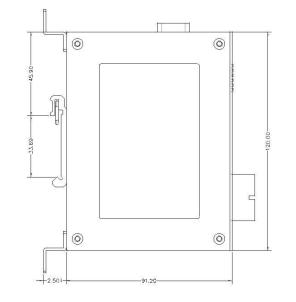


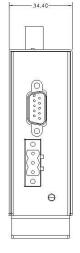
Dimension Drawing (unit = mm)





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Ordering Information

| Single Fiber Version | |
|----------------------|---|
| STF-401C-CM02-T | Compact Industrial RS-232/422/485 Serial to 100Fx Fiber Converter, Multi-Mode 2KM, SC, -40°C ~ 70°C |
| STF-401C-CS30-T | Compact Industrial RS-232/422/485 Serial to 100Fx Fiber Converter, Single-Mode 30KM, SC, -40°C ~ 70°C |
| STF-401C-TM02-T | Compact Industrial RS-232/422/485 Serial to 100Fx Fiber Converter, Multi-Mode 2KM, ST, -40°C ~ 70°C |
| STF-401C-TS30-T | Compact Industrial RS-232/422/485 Serial to 100Fx Fiber Converter, Single-Mode 30KM, ST, -40°C ~ 70°C |

| Optional Accessories | |
|-----------------------------|--------------------------------------|
| DR-45-24 | 45W Industrial Din Rail Power Supply |
| DR-75-24 | 75W Industrial Din Rail Power Supply |

Comparison

| Industrial Serial-to-Fiber Product Family Comparison | | | | | |
|--|--|---|---|--|--|
| | STF-401C Series Compact 1 Fiber Port | STF-501C series High Performance 1 Fiber Port | STF-502C series High Performance Dual Fiber Ports | | |
| Compare Features | | | | | |
| Supports 1*RS232 (DB9), or 1*RS422/485 (Terminal Block) | • | • | • | | |
| Supports Multi-mode in 2Km, Single-mode in 30Km | • | • | • | | |
| Baud Rate up to 1024Kbps | | • | • | | |
| Serial Isolation | | • | • | | |
| ESD Protection | • | • | • | | |
| RS422/485 Pull High / Low | • | • | • | | |
| Support Point-to-Point Application | • | • | • | | |
| Support Half-Duplex Daisy Chain / Ring Topology Serial-Fiber Network | • | • | • | | |
| Support Full-Duplex Redundant Ring Serial-Fiber Network | | | • | | |
| 5 Years Product Warranty | • | • | • | | |