

RUS-125STT Serial To Fiber Converter



Features

High Performance Design

- ✓ Complies with EIA/TIA-232, EIA/TIA-574 & CCITT V.28 standard
- ✓ Provides 1 serial port supporting RS-422/485
- ✓ Provides 1 x 100 Mbps single-mode fiber, ST connector with Terminal block interface
- ✓ Supports asynchronous data transfer rate up to 115.2 Kbps
- ✓ Supports 4-wire full and 2-wire asynchronous data transmission
- ✓ DTE, DCE push button setting available

Robust Industrial Design

- ✓ Robust metal case
- ✓ Supports operating temperature 0 to 60°C
- ✓ Available with 35 mm DIN-Rail mounting kit, Wall mount or desktop installation

Reliable Power Design

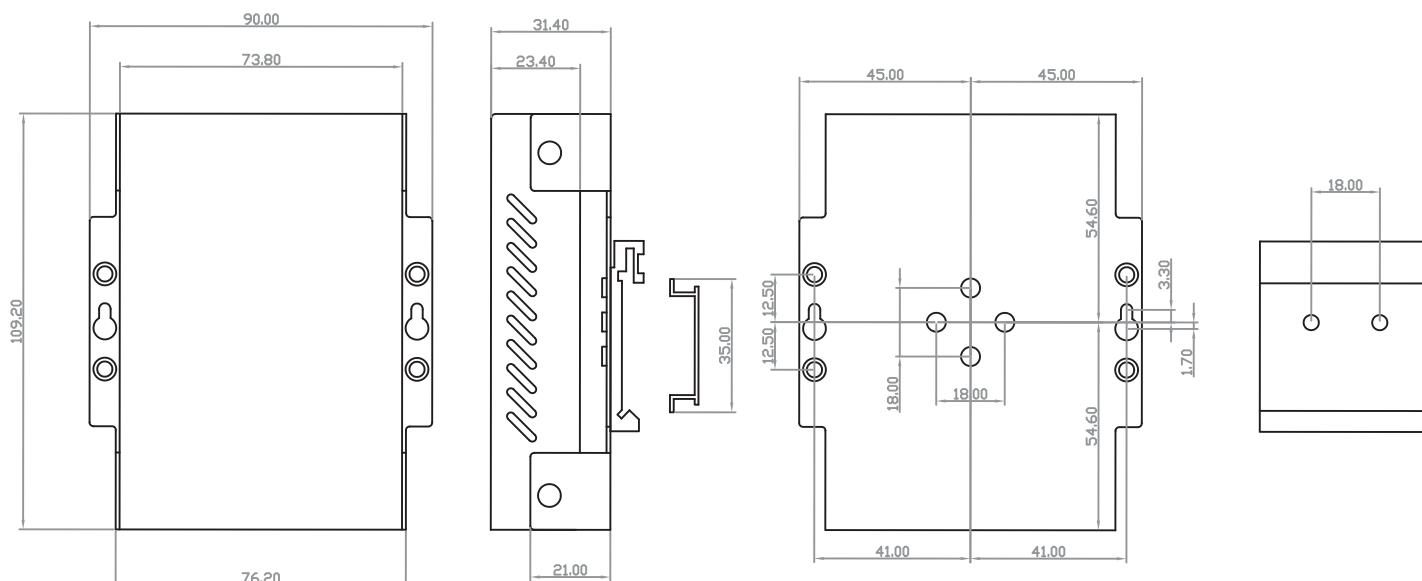
- ✓ Wide power Input from 9~32 VDC
- ✓ Supports ESD, EFT and Surge protection
- ✓ External power adapter available different power plug standards



Overview

The Retriever RUS-125STT is a RS-422/485 to fiber converter with ST connector and Terminal block interface. RUS-125STT provides a cost effective solution for extending distances to between single-mode fibers up to 30 km. Long haul distances are also available with a maximum transmission of 120 km. It enables network managers to install fiber cabling anywhere within the existing network environment without the need to remove, replace or modify existing copper-based RS-422/485 infrastructure. RUS-125STT is ideal for connecting data communication devices situated in manufacturing intensive environments where electromagnetic and radio-frequency interference is a major concern. Data integrity is ensured in view that the characteristics of fiber-optic cables that make any leakage of transmission are easily detectable by deploying the converters.

Dimensions



Hardware Specifications

Serial Interface

Serial Port	1 x serial RS-422/485 (Terminal block)
Fiber Port	1 100Base-FX single-mode port (ST connector)
LED	PWR: Illuminated green for normal operation LNK: Illuminated green when fiber is properly connected RCV: Illuminated amber for receiving packets from RS-422/485 Device
Power Input	VDC 9~32V
Power Protection	ESD, EFT, Surge: Present
Power Consumption	2.24 watts
Weight	280 grams
Dimension	90 mm (W) x 31.5 mm (H) x 109.2 mm (D)

Environmental

Operating Temperature	Regular 0 to 60°C
Storage Temperature	-20 to 80°C
Operating Humidity	10%~80% RH (Non-condensing)

Technology Specifications

Standard	EIA/TIA-422, EIA/TIA- 485
Maximum Distance	Fiber distance up to 30 km (Single-mode)
Data rates	Serial: max. 115.2 kbps (asynchronous)
Maximum Distance	DIP1: N/A DIP2: N/A DIP3: Enable / disable 2-wire/4-wire mode DIP4: Enable / disable terminator

Regulatory Approvals

EMI	FCC Class A
EMS	EN6100-4-2, EN6100-4-3, EN-6100-4-4, EN6100-4-5, EN6100-4-6, EN61000-4-11
Safety	CE/EN60950
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Free Fall	IEC60068-2-32
Environmental	WEEE, RoHS
MTBF	300,000 hrs based on Mil-Hdbk-217F, GB
Warranty	3 years

Optical Specifications

Model	Fiber type (um)	Connector	Wavelength (um)	TX Power (min)	TX Power (Max)	Rx Power (Min)	Rx Power (Max)	Link Budget (dbm)	Distance (km)
RUS-125STT	Single-mode 8-10/125	ST	1310nm	-15dBm	-8dBm	-34dBm	-8dBm	19dBm	30km

Ordering Information

RUS-125STT

RS-422/485 to Fiber converter, Single-mode ST connector, Terminal block