

# FIB-422/ST

## RS-422/Fiber Converter

The **FIB-422/ST** is a low cost, compact, fiber converter designed to extend RS-422/RS-485 transmissions up to 2Km without any repeaters. The transmissions run in fibers which provide for excellent data security as well as being immune to EMI/RFI, variations in ground potentials, and lightning strikes. The **FIB-422/ST** operates at the physical layer (OSI Layer 1) and is completely transparent to the RS-422 transmissions and protocols. The **FIB-422/ST**, utilizing an ST fiber cable, operates in Full Duplex mode for bi-directional transmissions.



### Features

- Compact design.
- Extends RS-422 up to 2KM.
- RS-422 at rates up to 115,200 baud.
- ST connector accommodates multi-mode fiber optic cable size 62.5/125 $\mu$ m.
- Secure data transmissions.
- Provides electromagnetic immunity .
- Full Duplex, bi-directional operation.
- Transparent operation.
- DC powered from AC adapter.

### Specifications

Signal Format	EIA RS-422/ST, ITU V.24, V.28
Mode	Asynchronous
Connector	4-Screw terminal (T+, T-, R+, R-)
Fiber Port	ST
Fiber Type	Multi-mode 62.5/125 $\mu$ m
Light Source	VCSEL Laser
Wavelength	850nm
Power Budget	10dB (at 62.5/125 $\mu$ m fiber cable)
Distance	2000 meters
Speed	DC~115,200 bps
BER(Bit Error Rate)	<10 <sup>-9</sup>
One power LED indicator	
Power: 9VDC, 300mA, AC adapter	

### Physical

Dimensions	55.6x43.4x17.4mm
Weight	~80 gram

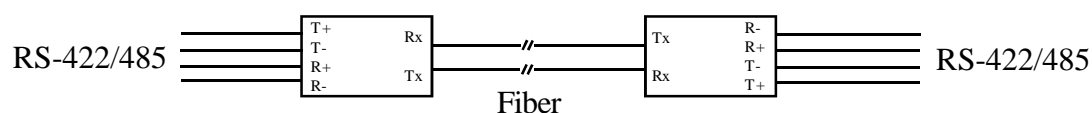
### Environment

Operation	0~50°C, 20~95%RH
Storage	-20~80°C, <95%RH

### Order Information

FIB-422/ST; Fiber to RS-422 Converter, ST, Multi-mode

### Application Example



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