

# FIBER Series

## 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** operate in pairs at the physical layer (OSI Layer 1) and are 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
Light Source	VCSEL Laser
Wavelength	850nm
Power Budget	10dB@(at 62.5/125 $\mu$ m fiber cable)
Distance	2000 meters
Speed	DC~115,200bps
BER(Bit Error Rate)	<10 <sup>-9</sup>
One power LED indicator	
Power:	9VDC, 300mA, AC adapter

#### Physical

Dimensions:	55.6(L) x 43.4(W) x 17.4(H) mm
Weight:	~80gram

#### Environment

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

#### Order Information

FIB-422/ST;	RS-422 to Fiber Converter, ST, Multi-mode, 2Km
-------------	--

#### Application Example

