HESF-T Series

Serial RS-232/485/422 to Optical Fiber Converter

Features:

- Operating Temperature: -40°C to 85°C
- ± 15KV ESD Protection and 600W Surge Protection per Wire for RS-485/422 Interface

Introduction:

The fiber optic converter is a multifunctional fiber optic MODEM that supports asynchronous RS-232, RS-485, and RS-422 communication interfaces. It is used to connect the remote terminal unit (RTU) to the host (HOST) or distributed data acquisition system (SCADA) controller. HESF-T series supports a variety of asynchronous communication protocols such as RS-232, RS-485 and RS-422. Two RS-232, RS-485 or RS-422 interfaces can be mixed at the same time. This series supports 2-wire (half-duplex) RS-485 and 4-wire (full-duplex) RS-422 working mode. The RS-485 mode of the fiber optic converter supports data (TXD or SD) transmission control, which improves the ability to adapt to various software and simplifies the control method. The fiber optic MODEM supports multiple fiber optic connection methods between asynchronous serial ports. It supports two asynchronous serial port devices for full-duplex or half-duplex communication through optical fiber. The communication distance is up to 4 kilometers for multi-mode and 20 kilometers for single-mode. The transmission rate of RS-232 signal is up to 115.2 Kbps. The signal transmission rate of RS-485/RS-422 can reach up to 460 Kbps. Interfaces of different electrical standards can be mixed. RS-232 equipment can be used to connect RS-485/RS-422 equipment, which can replace RS-232 to RS -485/422 interface converter or optical isolator, and provides excellent EMI/RFT characteristics.
This series supports the transmission of two data signals: sending data and receiving data, and also provides an RS-485/RS-422 data transmission automatic enable control circuit with zero-delay conversion time.

Specification:

Hardware	
Interface	RS-232/RS-485/RS-422
Asynchronous Transmission	Point-to-point, Rate up to 460 Kbps
Transmission Distance	Multi-mode: 4 Km Single mode: 20 Km
Operating Temperature	-40°C to 85°C
Relative Humidity	5% to 95% RH
Operating Wavelength	Multi-mode: 1310 nm Single mode: 1310 nm / 1550 nm
Electrical Interface	RS-232 with Terminal Block Connector RS-485/422 with Terminal Block Connector
Optical Fiber Interface	Optional SC/ST Interface
RS-232 Interface Features	Standard RS-232 Three-wire Interface, ± 15KV (Anti-static) ESD Protection, Rate up to 115.2Kbps
Input Voltage	DC 9-48V 200 mA
RS-485/422 Interface Features	Port adaptation technology is used to realize adaptation from port to rate adjustment without switch setting. ± 15KV (anti-static) ESD Protection 600W Surge Protection per Wire for RS-485/422 Interface

Predision™

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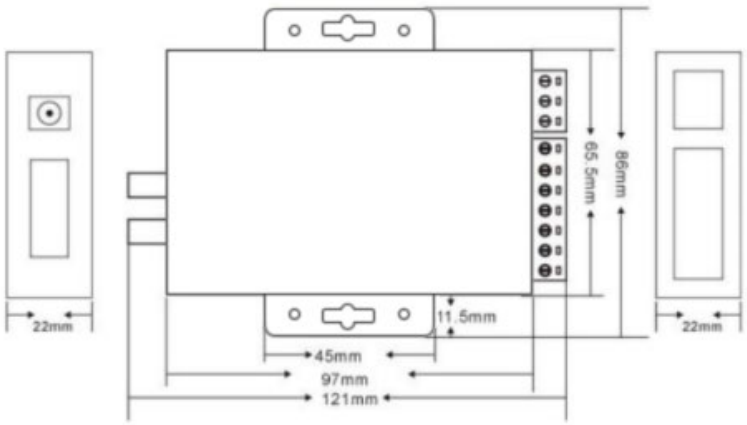
Dimension Drawing:



Ordering Information:

HESF-T-007	Dual Fiber, Multi-mode, Transmission Distance: 4KM, SC Interface, Transmission Rate for RS-232 Can Be up to 115.2Kbps, and for RS-485/422 Can Be 460Kbps, Single Ring Network
HESF-T-008	Dual Fiber, Multi-mode, Transmission Distance: 4KM, ST Interface, Transmission Rate for RS-232 Can Be up to 115.2Kbps, and for RS-485/422 Can Be 460Kbps, Single Ring Network
HESF-T-015	Dual Fiber, Single-mode, Transmission Distance: 20KM, SC Interface, Transmission Rate for RS-232 Can Be up to 115.2Kbps, and for RS-485/422 Can Be 460Kbps, Single Ring Network
HESF-T-016	Dual Fiber, Single-mode, Transmission Distance: 20KM, ST Interface, Transmission Rate for RS-232 Can Be up to 115.2Kbps, and for RS-485/422 Can Be 460Kbps, Single Ring Network