

Model: UT-277A

RS-232/485/422 to Fiber Optic Converter



Datasheet

Overview

UT-277A is a fiber optic MODEM that supports asynchronous RS-232, RS-485, RS-422 communication interfaces. It is the best choice for connecting remote terminal units (RTU) to HOST or distributed Data acquisition system (SCADA) controllers. UT-277A supports RS-232, RS-485, RS-422 asynchronous communication protocols. It can be used by mixing with two RS-232, RS-485 or RS-422 interface. It supports 2-wire (half duplex) RS-485 and 4-wire (full duplex) RS-422 working mode. The RS-485 mode of UT-277A supports data (TXD or SD) transmission control, which improves the ability to adapt to various types of software. The optical fiber MODEM supports a variety of optical fiber connection modes between asynchronous serial ports, and supports full-duplex or half-duplex communication between devices of two asynchronous serial ports through optical fibers. The communication distance can be up to 4 kilometers for multi-mode, 20 kilometers for single-mode, the transmission rate of RS-232 signal is up to 115.2Kbps, the signal transmission rate of RS-485/RS-422 is up to 460 KBPS, and the interface of different electrical standards can be mixed. RS-232 devices can be used to connect RS-485/RS-422 devices, which can replace RS-232 to RS-485/422 interface converters or photoelectric isolators, and provide excellent EMI/RFT characteristics.

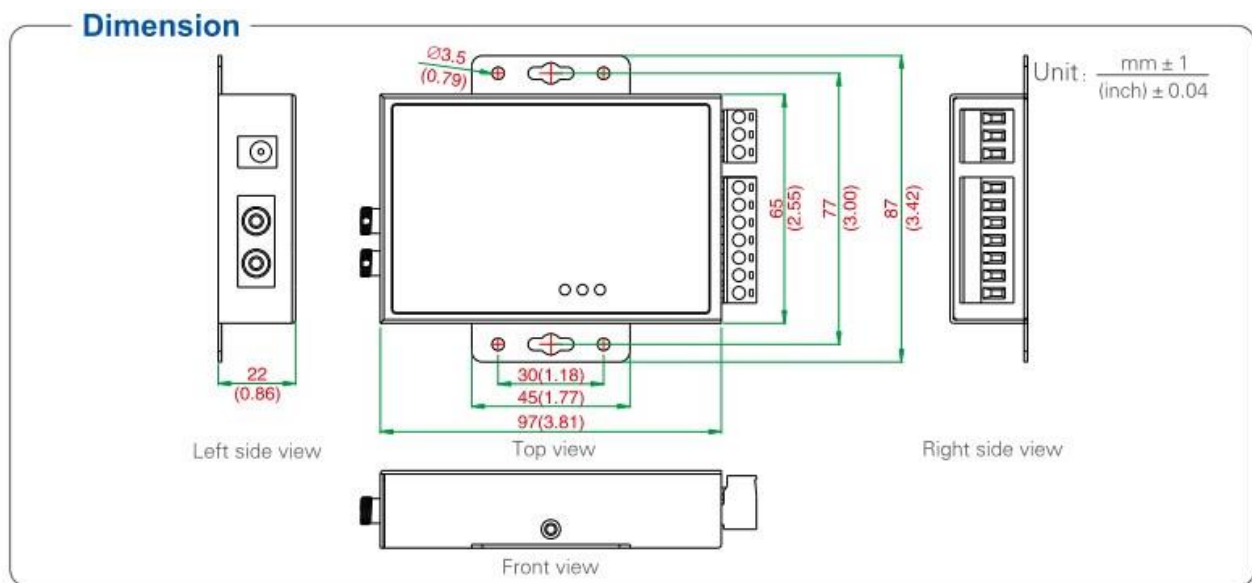
Feature

- Supports RS-232, RS-422, RS-485 interface
- Asynchronous transmission: point to point, 460kbps
- Transmission distance: multi-mode: 4Km,
- Single mode: 20/40Km
- Operating temperature: -40℃~85℃
- Operating wavelength: multi-mode: 1310nm,
- Single mode: 1310nm
- Electrical interface: RS-232: Terminal block connectors
- RS-485/422: Terminal block connectors
- Fiber: with optional SC/FC/ST
- RS-232 interface features: Standard RS-232 three-wire interface +/- 15kV (anti-static) ESD protection supports up to 115.2kbps
- Input voltage: DC9-48V 200mA
- RS-485/422 interface features: Adaptive port-to-rate adjustment with port adaptive technology,
- no switch settings, +/-15KV (anti-static) ESD protection supports up to 32-point polling environment.

PIN definition

Terminal block(PIN)	Signal	RS-422 full-duplex	RS-485 half-duplex
1	T/R+	A+	RS-485(A+)
2	T/R-	B-	RS-485(B-)
3	RXD+	A+	N/A
4	RXD-	B-	N/A
5	TXD	RS-232 transmitting	
6	RXD	RS-232 receiving	
7	GND	RS-232 GND	
8	VCC	Power input DC9-48V	
9	GND	GND	
10	ETH	ETH	

Dimension



Ordering

Model	Port	Single-mode	Multi-mode	Fiber port type	Power
	RS-232/485/422				
UT-277ASM-SC	√	√		SC	9-48VDC
UT-277ASM-ST	√	√		ST	9-48VDC
UT-277ASM-FC	√	√		FC	9-48VDC
UT-277AMM-SC	√		√	SC	9-48VDC
UT-277AMM-ST	√		√	ST	9-48VDC
UT-277AMM-FC	√		√	FC	9-48VDC