

References:

- *TS-RS232-MM2KM multi-mode.
- *TS-RS232-SM20KM Single mode.

Overview:

TS-RS232-fiber is a type of RS-232/RS-485/RS-422 serial port fiber optic Modem. It adopts industrial standard design and its wall type outface design supports DIN-rail standard lead rail installation, featuring easy installation. Presently, many users make use of RS-232/RS-485/RS-422 serial port fiber optic Modem to solve the electromagnetic interference in engineers and to extend the RS-232/RS-485/RS-422 serial port transmission distance to several or even tens of kilometers.



TS-RS232-fiber can provide users with RS-232/RS-485/RS-422 serial port end-to-end transparent transmission. Since signals are transmitted over fibers and these optical signals are free of electrical conductivity, they have strong anti-interference capacity and are immune to high-voltage power or thunders.

Features:

- Zero-Delay automatic forwarding.
- Supporting three types of interfaces: RS-232/485/422.
- Automatic detection of serial port rate, judgment and control of data transmission direction.
- Working wavelength: 850 nm (multi-mode); 1310 nm (single mode).
- Maximum communication rate: 500 Kbps.
- Optional optical interfaces: ST/SC/FC.
- Up to 2 kilometers in multi-mode transmission and up to 40 kilometers in single mode transmission.
- Broad voltage inputs: 5-40 VDC or 85-265 VAC.
- The interface supports 1500W surge protection and 15KV ESD protection.
- External power supply.

Technical Indexes:

Standard	In compliance with EIA RS-232 and RS-485 standards
RS-232 signal	IN, OUT, GND
RS-485 signal	D+, D-, GND
RS-422 signal	R+, R-, T+, T-, GND
Fiber signal	IN, OUT
Working mode	Asynchronous working mode, point-to-point
Direction control	Adopting automatic data flow control technology, supporting automatic judgment and control of data transmission direction

Baud rate	0-500 Kbps, automatic detection of signal rate
Fiber wavelength	Multi-mode: 850 nm; single mode: 1310 nm
Transmission distance	RS-232 interface: 15 meters; RS-485/422 interface: 1200 meters; Multi-mode: 2 km; Single mode: 40 km
Load capacity	RS-485/422 interface supports 32 nodes (128 nodes customizable)
Interface protection	600W surge protection, 1500V ESD protection
Data interface	8-pin connector or DB9
Optical interface	SC
Environmental Indexes	
Operating temperature	-25°C to 70°C
Maintaining temperature	-40°C to 85°C
Humidity	5%-95% RH
Power Indexes	
Input power	12V input
Power consumption	2W

Application diagram:

