



## RS232 Fiber Modem

OP-FM-RS232



Shenzhen Optostar Optoelectronics Co., Ltd

2013. 05 (Version 2)

## Overview

OP-FM-RS232 is based on FPGA, which supports asynchronous RS-232 communication interface Fiber Modem. OP-FM-RS232 is the best choice of connecting to the remote terminal unit (RTU) to a host (HOST) or a distributed data acquisition system (SCADA) controllers, with very high performance price ratio. Using ordinary multi-mode fiber, effective communication distance is up to 4KM, while using ordinary single-mode fiber, effective communication distance up to more than 40KM. Serial port communication rate is up to 921.6KBPS. As a result of the fiber as a transmission medium, you can completely avoid the threat to communication device under the adverse environment, such as lightning, surges and electromagnetic interference, at the same time it saves investments of the original lightning surge protection devices that using copper .

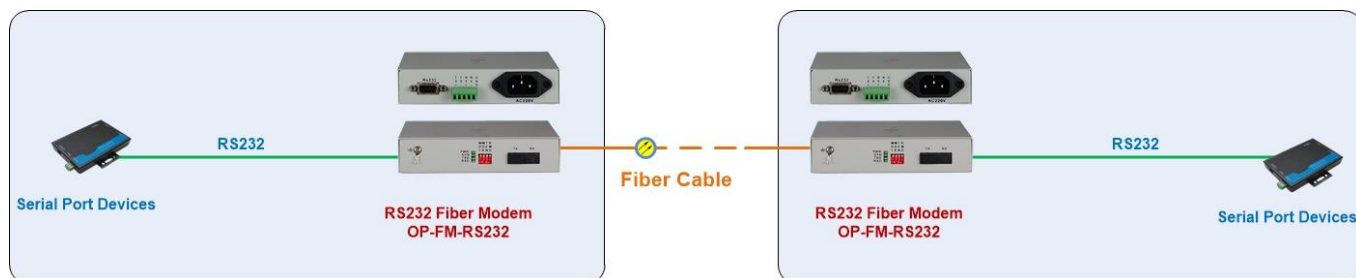
## Product Features

- Based on self -copyright IC
- Have the ability to automatically detect the baud rate of serial port signal
- Automatically test the reason of the device matt is that the device is power off, or E1 line is broken. And then indicate on the LED
- Serial port interface lightning-protection reached IEC61000-4-5 (8/20  $\mu$  S) DM(Differential Mode): 6KV, Impedance (2 Ohm), CM(Common Mode): 6KV, Impedance (2 Ohm) standard
- Support SNMP Network Management
- Serial channel can transmit adaptable serial data asynchronously 300-921.6Kbps baud rate

## Technical Parameter

OP-FM-RS232 RS232 Fiber Modem	
Optical interface	
Multi-mode Fiber	
Diameter of fiber core	50/125um, 62.5/125um
Transmission distance	5Km @ 62.5 / 125um single mode fiber, attenuation (3dbm/km)Wave Length: 820nm
Transmitting power	-12dBm (Min) ~-9dBm (Max)
Receiver sensitivity	-28dBm (Min)
Link budget	16dBm
Connector	SC/FC
Single-mode Fiber	
Diameter of fiber core	8/125um, 9/125um
Transmission distance	40Km @ 9 / 125um single mode fiber, attenuation (0.35dbm/km)
Wave Length	1310nm
Transmitting power	-9dBm (Min) ~-8dBm (Max)
Receiver sensitivity	-27dBm (Min)
Link budget	18dBm
Connector	SC/FC
Serial interface	
Standard	EIA/TIA-232 RS-232 (ITU-T V.28)
Serial Interface	RS-232: RXD, TXD, Signal Ground
Dimension	
Product Size	103X93X28mm(WXDXH)
Simple packaging	200X176X55mm(WXDXH)
Piece Weight	1.2KG
Operation Environment	
Operating temperature	0°C~50°C
Storing temperature	-40°C~+70°C
Relative humidity	95 %
No causticity and solvent, dust free, and no strong magnetic interference.	
Power	
Voltage	AC180V ~ 260V; DC -48V; DC +24V
Consumption	≤10W
Warranty	2 Year Warranty, Life-time Maintenance

## Application



## Order Information

Model	Description
OP-FM-RS232	RS232 Fiber Modem

## Package include

No	Package List
1	RS232 Fiber Modem
2	User Guide
3	Warranty Card

## Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by OPTOSTAR before they become applicable to any particular order or contract. In accordance with the OPTOSTAR policy of continuous improvement specifications may change without notice.

The publication of information in this data sheet does not imply freedom from patent or other protective rights of OPTOSTAR or others. Further details are available from any OPTOSTAR sales representative.

## Contact OPTOSTAR

### Shenzhen Optostar Optoelectronics Co., Ltd

Address:A-14,Haide Building,the Intersection of Nanxin Road and Haide Second Road Nansha n District Shenzhen,China .

Tel: +86-755-26400198 +86-755-26400288 Fax: +86-755-26411001

Email: [info@optostar.com.cn](mailto:info@optostar.com.cn)

Skype:ouyangroya

Web: [www.optostar.com.cn](http://www.optostar.com.cn)