

# RS-232/RS-485 Total Solution

OPT35EX

OPT35EXS

## Repeater of RS-232/485/422 OPTICAL FIBER CONVERTER

### 1 Introduction

Repeaters of RS-232/485/422 optical fiber converter are used to extend distance of optical fiber communication. They are world's smallest size!

With media of optical fiber, the communication system resist high voltage, electro-magnetic disturbance and thunder. BOSI™ RS-232/ optical fiber converters,RS-485/ optical fiber converters are widely used in industry process control, electric power system automation, transportation control.

### 2 Installation

Model OPT35EX and OPT35EXS Repeaters of RS-232/485/422 optical fiber converters are DB-25/DB-25 sized. It is with two pairs of ST type optical fiber socket. There is a male DB-9 socket in the middle, including RS-232/485/422,and terminals connecting DC5V power supply.

The deep gray ST socket is receiver, and the light gray ST socket is sender. The sender is connected to the receiver of another converter with optical fiber.

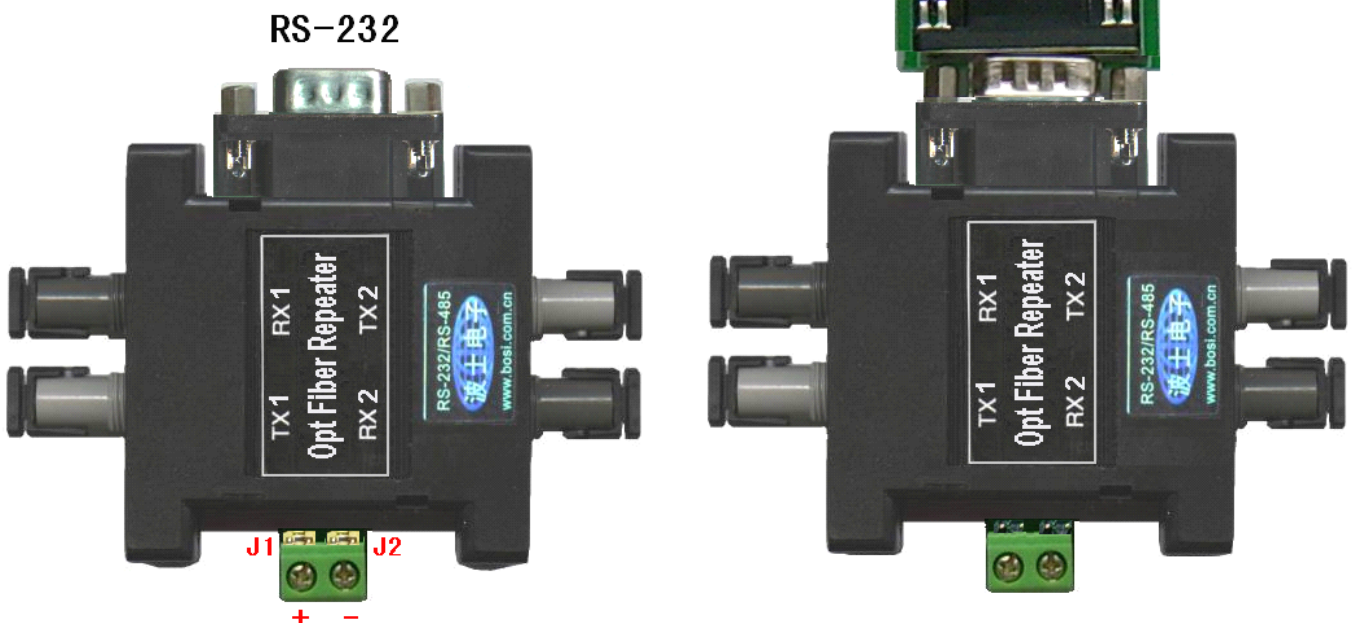
### 3 feature

BOSHIKA OPT series converters support up to 115.2Kbps of baud rate。 No initialization setting is needed! No software modifying is needed ! BOSHIKA electronics has unique zero-time-delay auto TXD/RXD enabling technique and Suitable for all software.

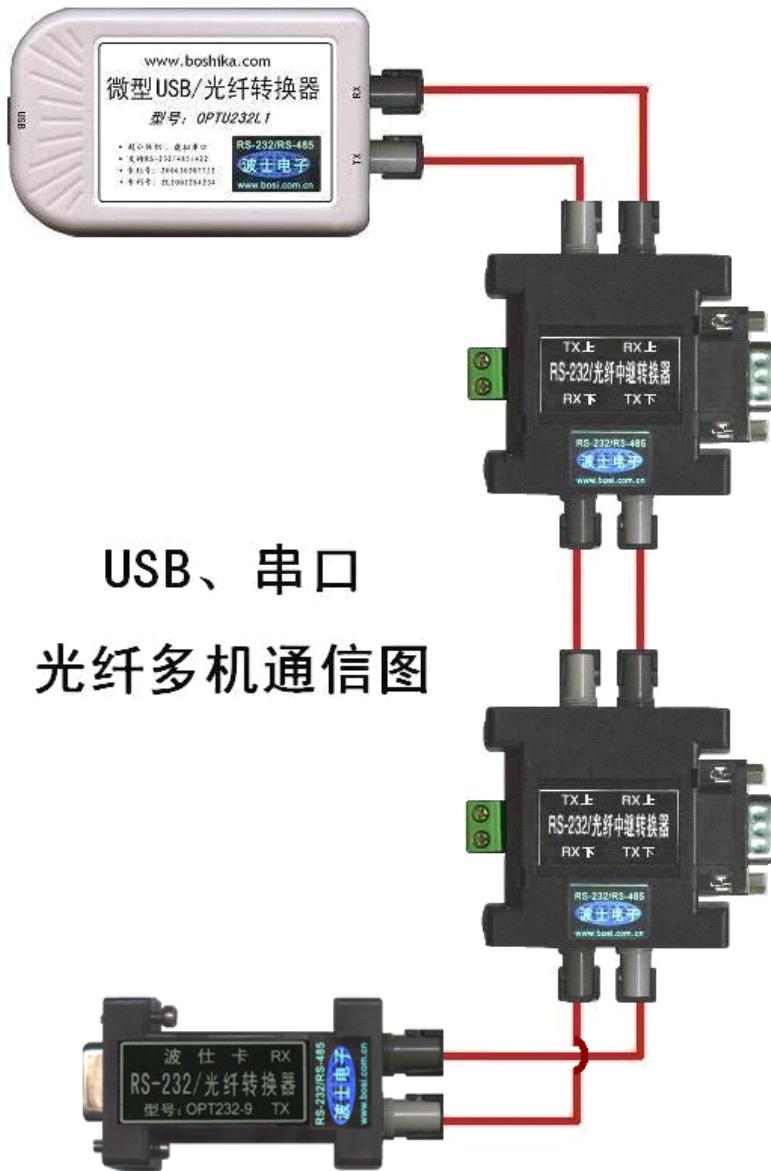
socket	ST
media	Multi or single mode optical fiber
electronic interface	RS-232(DB-9 Male) RS-485/RS-422 (terminals)
size	about 17*55*70mm

Wave length	820nm (Multi mode) 1300nm (Single mode)
weight	90 grams
distance	4Km (Multi mode) 50Km (Single mode)
Fiber type	50/125、 62.5/125、 100/140um

### 4 photos



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USB、串口  
光纤多机通信图

Note: the TX1 and RX1 to up direction, TX2 and RX2 to down direction.

OPT35EX [S] has a serial port of male DB-9, with all RS - 232, RS - 485, RS - 422. As RS - 232, pin 2, 3, 5 is identical to PC's RS-232. As a RS - 422, T + and T- is from OPT35EX [S] to send. Pay attention to the RS - 485 and RS - 422 communications need ground wire (pin 5). RS - 485/422 do not need to jump set. RS - 485/422 signal reference ground is same to GND of RS - 232.

The male DB-9 pin description is as follows:

	1	2	3	4	5	6	7	8	9
RS-232		RXD	TXD		GND				
RS-485	A				GND				B
RS-422	T+				GND	R+		R—	T—

Jumps J1、J2 are always open. Only when J1 & J2 are close, OPT35EX[S] is used as 1 serial port to two optical fibers converter.