Fiber Optic Serial Data Transmission
2-Channel Duplex Rs232 Serial Data over Fiber

System Design

Video

2

Data

Audio

Ethernet

Fiber Optic Serial Data Transmitter & Receiver
VOS-2FOM-D232T/R provides for the digital transmission of 2-Channel duplex Rs232 serial data signal over one fiber. Applications for PTZ Control for CCTV Surveillance Systems, Access Control System, Industirlia control, Data Control for Manufacturing / Assembly Platforms, ITS...etc.

Stand-alone or rack-mount. All units of VOS-2FOM-D232T/R come in an insert card version. The cards can be inserted into our our 14-slot, 19inch 4U or 6U rack-mountable card cage (VOS-CH04 or VOS-CH06).
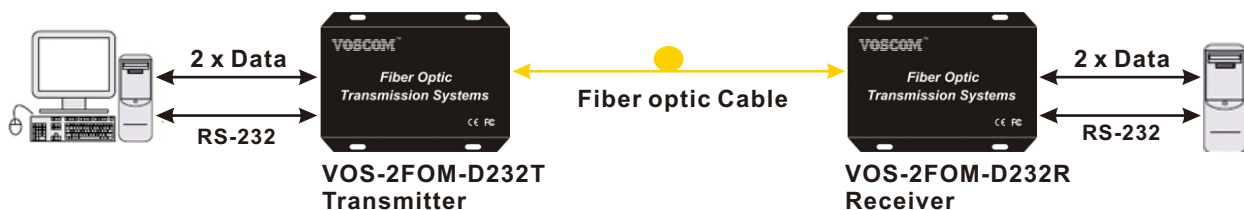
Single-Mode or Multi-Mode,VOS-2FOM-D232T/R can support FC /PC or ST/PC Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget. Manufacturer's standard is: Single-mode 20km or Multi-mode 2km.

Features

- Support Point-to-Point or Daisy-Chain connection
- Rs232 Serial data over one fiber
- Multi-mode Fiber Support for Distances up to 2.0 km
- Single-Mode Fiber Support for Distances up to 100 km
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops
- Stand alone or rack-mount
- Produce according to customer's specifications,providing OEM

Typical Configuration

2 x Data

RS-232

VOS-2FOM-D232T
Transmitter

Fiber optic Cable

2 x Data

RS-232

VOS-2FOM-D232R
Receiver

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-2FOM-D232MT	VOS-2FOM-D232MR	Multi-Mode	1310nm/1550nm	16dB	2km
VOS-2FOM-D232ST	VOS-2FOM-D232SR	Single-Mode	1310nm/1550nm	12dB	20km
VOS-2FOM-D232ST-4	VOS-2FOM-D232SR-4	Single-Mode	1310nm/1550nm	18dB	40km
VOS-2FOM-D232ST-6	VOS-2FOM-D232SR-6	Single-Mode	1310nm/1550nm	25dB	60km

Note:

- The Optical Power Budget data fit Mulit-mode(62.5/125 μm),Single-Mode(9/125 μM.).
- When using 50/125 μM. multimode fiber, subtract 3 dB from the optical power budget.
- Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels.
- Maximum transmission distance is also limited by fiber bandwidth.
- Power adapter is manufactured by third party and is supplied with fitted screw-terminal output cables.Power adapter included (for standalone) US, European, UK or Australian power plug.
- Please feel free to consult factory for any special requirement and customization

Specification

• Serial Data

Number of Channels:	2-Channel Duplex Rs232 Serial Data
Data Formats:	Rs232 Data
Data Rate:	DC to 1Mbps
Bit Error Rate:	< 10E-9

• Connectors

Serial Data:	Terminal Block
Optical:	FC/PC or ST/PC Optional
Stand-Alone Power:	Screw terminal block
Rack Power:	AC line cord

• Electrical & Mechanical

Input Power Requirements:	DC 5V@1A
Power Adapter:	AC 100V~240V
Power Consumption:	< 3W
Stand-Alone Dimensions:	104mm x 104mm x 28mm
Shipping Weight:	1.0kg (include TX & RX)

• Environmental

Operating Temperature:	-45°C~+75°C
Storage Temperature:	-45°C~+85°C
Relative Humidity:	0%~95% (non-condensing)
MTBF:	>100,000 hours