

Fiber Optic Serial Data Transmission 8-Channel Duplex Rs485 Serial Data over Fiber

System Design

Fiber Optic Serial Data Transmitter & Receiver

VOS-8FOM-D485T/R provides for the digital transmission of 8-Channel duplex Rs485 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-8FOM-D485T/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4U or 6U rack-mountable card cage (VOS-CH04 or VOS-CH06). The card version of this model require **two slots widths**.

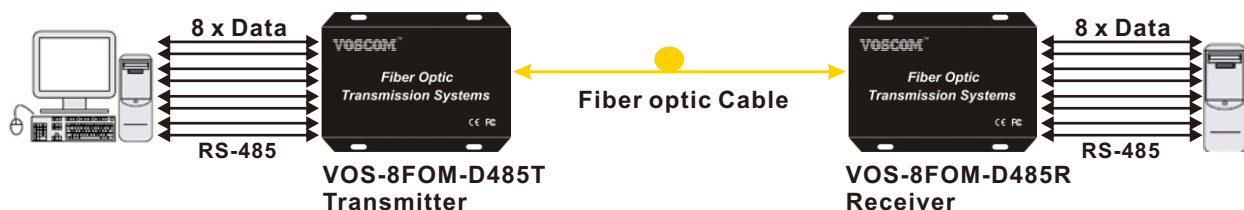
Single-Mode or Multi-Mode, VOS-8FOM-D485T/R can support FC /PC or ST/PC Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget. Manufacturer's standard is: Single-mode 20km or Multi-mode 2km.

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



Serial Data over Fiber

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-8FOM-D485MT	VOS-8FOM-D485MR	Multi-Mode	1310nm	16dB	2km
VOS-8FOM-D485ST	VOS-8FOM-D485SR	Single-Mode	1310nm	12dB	20km
VOS-8FOM-D485ST-4	VOS-8FOM-D485SR-4	Single-Mode	1310nm	18dB	40km
VOS-8FOM-D485ST-6	VOS-8FOM-D485SR-6	Single-Mode	1550nm	25dB	60km

Note:

- The Optical Power Budget data fit Multi-mode(62.5/125 μ m), Single-Mode(9/125 μ m.).
- When using 50/125 μ m. 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: 8-Channel Duplex RS485
Serial Data
Data Formats: RS485 Data, 2-wire
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@2A
Power Adapter: AC 100V~240V
Power Consumption: < 5W
Stand-Alone Dimensions: 192mm x 167mm x 28mm
Shipping Weight: 2.0kg (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