# VOBCOM

## VOS-8FOM-D485T/R

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

#### System Design

Video



Data

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 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.

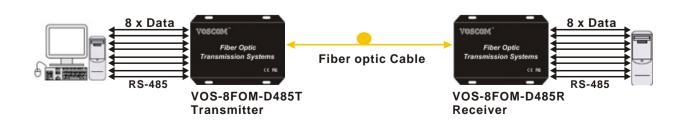
Single-Mode or Multi-Mode, VOS-8FOM-D485T/R can support
FC /PC or ST/PC Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget. Manufacturer's standard is: Single-mode 20km or Multi-mode 2km.



#### Features

- Support Point-to-Point or Daisy-Chain connection
- Rs485 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



#### Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power	Maximum Transmission
Transmitter	Receiver	TIDET MODE	wavelengths	Budget	Distance
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 Mulit-mode(62.5/125 µm), Single-Mode(9/125 µm).

- When using 50/125  $\,\mu\,m$  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	• Connectors		
Number of Channels: 8-Channel Duplex R Serial Data Data Formats: Rs485 Data, 2-wire Data Rate: DC to 115.2Kbps Bit Error Rate: < 10E-9	485 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@3A Power Adapter: AC 100V~240V Power Consumption: < 5W Stand-Alone Dimensions: 176.5mm × 158mm × 59mm Card for 4U Rack Dimensions: 145mm × 170mm × 45.4mm Shipping Weight: 2.5kg (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		