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Fiber Optic Serial Data Transmission 4-Channel Duplex Rs485 Serial Data over Fiber

System Design

Video

Fiber Optic Serial Data Transmitter & Receiver
VOS-4FOM-D485T/R provides for the digital transmission of 4-Channel duplex Rs485 serial data signal over one fiber.

Applications for PTZ Control for CCTV Surveillance Systems

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Applications for PTZ Control for CCTV Surveillance Systems, Access Control System, Industirlia control, Data Control for Manufacturing / Assembly Platforms, ITS...etc.

Data

Stand-alone or rack-mount. All units of VOS-4FOM-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).

Audio

Single-Mode or Multi-Mode, VOS-4FOM-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.







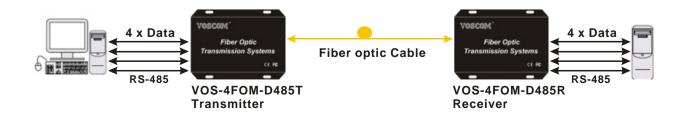


Ethernet

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



Serial Data over Fiber

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power	Maximum Transmission
Transmitter	Receiver			Budget	Distance
VOS-4FOM-D485MT	VOS-4FOM-D485MR	Multi-Mode	1310nm/1550nm	16dB	2km
VOS-4FOM-D485ST	VOS-4FOM-D485SR	Single-Mode	1310nm/1550nm	12dB	20km
VOS-4FOM-D485ST-4	VOS-4FOM-D485SR-4	Single-Mode	1310nm/1550nm	18dB	40km
VOS-4FOM-D485ST-6	VOS-4FOM-D485SR-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 $50/125~\mu\,m$ 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

Number of Channels: 4-Channel Duplex Rs485

Serial Data

Data Formats: Rs485 Data, 2-wire
Data Rate: DC to 115.2Kbps

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: < 3W

Stand-Alone Dimensions: $142 \text{mm} \times 107 \text{mm} \times 25 \text{mm}$ Card for 4U Rack Dimensions: $145 \text{mm} \times 170 \text{mm} \times 20 \text{mm}$

Shipping Weight: 1.8kg (include TX & RX)

Environmental

Operating Temperature: -45° C $\sim +75^{\circ}$ C Storage Temperature: -45° C $\sim +85^{\circ}$ C

Relative Humidity: 0%~95% (non-condensing)

MTBF: >100,000 hours

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