

Fiber Optic Serial Data Transmission 1-Channel Duplex Rs422 Serial Data over Fiber

System Design

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Data

Audio

Ethernet

Fiber Optic Serial Data Transmitter & Receiver

VOS-1FOM-D422T/R provides for the digital transmission of 1-Channel duplex Rs422 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.

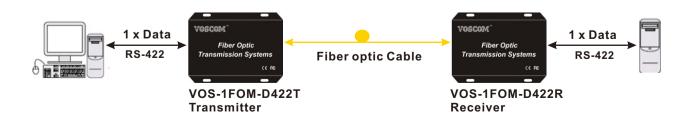
Stand-alone or rack-mount. All units of VOS-1FOM-D422T/R come in an insert card version. The cards can be inserted into our our 14-slot, 19inch 4U or 6U rack-mountable card cage (VOS-CH04 or VOS-CH06).

Single-Mode or Multi-Mode, VOS-1FOM-D422T/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.



- 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
- \bullet Produce according to customer's specifications, providing OEM

Typical Configuration





Serial Data over Fiber

Ordering Information

Model	Fiber Mode	Wavelengths	Optical Power	Maximum Transmission		
Transmitter	Receiver	ribei Mode	Wavelengths	Budget	Distance	
VOS-1FOM-D422MT	VOS-1FOM-D422MR	Multi-Mode	1310nm/1550nm	16dB	2km	
VOS-1FOM-D422ST	VOS-1FOM-D422SR	Single-Mode	1310nm/1550nm	12dB	20km	
VOS-1FOM-D422ST-4	VOS-1FOM-D422SR-4	Single-Mode	1310nm/1550nm	18dB	40km	
VOS-1FOM-D422ST-6	VOS-1FOM-D422SR-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.).
- \bullet 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

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Number of Channels: 1-Channel Duplex Rs422

Serial Data

Data Formats: Rs422 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

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