

Fiber Optic Data Transmission (Fiber Optic Modem) 2-Channel Duplex RS485/RS232/RS422 Data over Fiber

System Design

Video

Fiber Optic Data Transmission (Fiber Optic Modem)
VOS-2FOM-D provides for the digital transmission of 2-Channel Duplex data, and data support RS485(2-wire or 4-wire), RS232, RS422. Typical applications for Pan/Tilt/Zoom for Surveillance Systems, Data Control for Manufacturing/Assembly Platforms, Data Control for Traffic Monitoring/Control/Analysis...etc.

Audio

Stand-alone or rack-mount. All units of VOS-2FOM-D come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4U rack-mountable card cage (VOS-CH04).



Data

Single-Mode or Multi-Mode, VOS-2FOM-D 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.

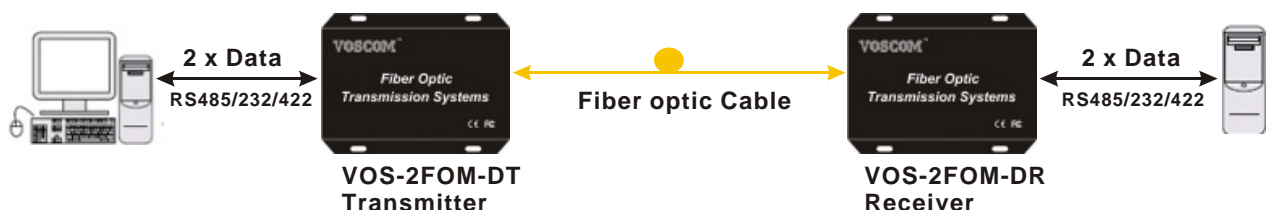


Ethernet

Features

- Support Point-to-Point or Daisy-Chain connection
- Duplex Data transmission over one fiber
- Data support RS485(2-wire or 4-wire), RS232, RS422
- 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
- Support Coarse Wavelength Division Multiplexing (CWDM)
- 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-2FOM-DMT	VOS-2FOM-DMR	Multi-Mode	1310nm/1550nm	16dB	2km
VOS-2FOM-DST	VOS-2FOM-DSR	Single-Mode	1310nm/1550nm	12dB	20km

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

<ul style="list-style-type: none"> • Data <p>Data Formats: RS485(2-wire or 4-wire), RS232, RS422</p> <p>RS485(2W or 4W) Data Rate: DC to 115.2Kbps</p> <p>RS232 Data Rate: DC to 115.2Kbps</p> <p>RS422 Data Rate: DC to 115.2Kbps</p> <p>Bit Error Rate: 10E-9</p>	<ul style="list-style-type: none"> • Connectors <p>Data: Terminal Block</p> <p>Optical: FC (standard), ST Optional</p> <p>Stand-Alone Power: Screw terminal block</p> <p>Rack Power: AC line cord</p>
	<ul style="list-style-type: none"> • Electrical & Mechanical <p>Input Power Requirements: DC 5V@2A</p> <p>Power Adapter: AC 100V~240V</p> <p>Power Consumption: < 3W</p> <p>Stand-Alone Dimensions: 142mm \times 107mm \times 25mm</p> <p>Card for 4U Rack Dimensions: 145mm \times 170mm \times 20mm</p> <p>Shipping Weight: 1.8kg (include TX & RX)</p>
	<ul style="list-style-type: none"> • Environmental <p>Operating Temperature: -45° C ~ +75° C</p> <p>Storage Temperature: -45° C ~ +85° C</p> <p>Relative Humidity: 0% ~ 95% (non-condensing)</p> <p>MTBF: > 100,000 hours</p>

Due to continuous improvement, all products specifications are subject to change without further notice. Contact us for custom requirements. E-mail: Sales@voscom.com Website: www.voscom.com