

DVI Fiber Optic Extender

1-Channel DVI + 1 Duplex Audio over Fiber



DVI

System Design

DVI & Audio Fiber Optic Extenders

VOS-1DVI-LAT/R provides for the digital transmission of 1-Channel uncompressed DVI video resolutions up to WUXGA 1920x1200 and HDTV Video resolutions up to 1080p, support 1 duplex stereo audio and support one DVI loopback output for local display. Ideal for specialized Media Display, Security Systems, Airport / Airplane / Metro / Railway applications.



Audio

Stand-alone or rack-mount. All DVI Transmission over Fiber of VOS-1DVI-LAT/R come in an insert card version. The cards can be inserted into our 16-slot, 19inch 4U rack-mountable card cage (VOS-CH04-HD16).

Data



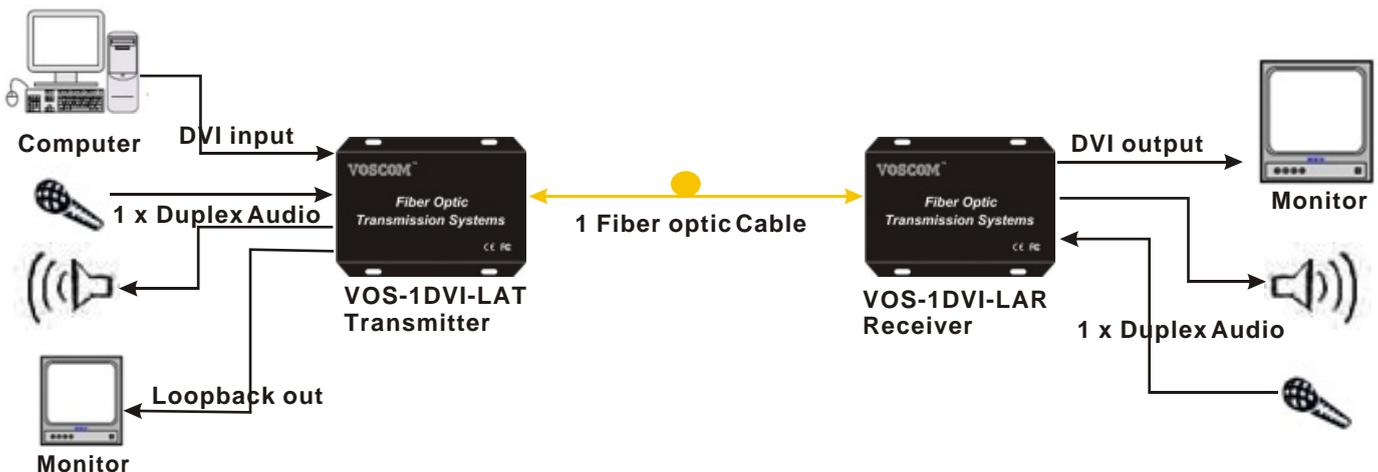
Single-Mode or Multi-Mode, VOS-1DVI-LAT/R only can support LC optical connector, support Single-mode 15km or Multi-mode 300m over one single-fiber.

Ethernet

Features

- Uncompressed DVI and stereo audio over one fiber
- Supports DVI resolutions up to WUXGA 1920x1200
- Supports HDTV video resolutions up to 1080p
- Multi-mode Fiber Support for Distances up to 300m
- Single-Mode Fiber Support for Distances up to 15 km
- LED Status Provide Rapid Indication of Operating Parameters
- Requires no adjustments, equalization or de-skewing during installation
- No EMI or RFI and no ground loops
- Stand alone or rack-mount

Typical Configuration



DVI Fiber Optic Extenders

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-1DVI-LAT	VOS-1DVI-LAR	Multi-Mode	1310nm/1550nm	16dB	300m
		Single-Mode	1310nm/1550nm	12dB	15km

Note:

- The Optical Power Budget data fit Multit-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"> • Video <ul style="list-style-type: none"> Number of Channels: 1-Channel DVI 1.0 Data Rates: 4.25Gbps Maximum resolution: 1920x1200 or 1080P Color Depth: 24-Bit 	<ul style="list-style-type: none"> • Connectors <ul style="list-style-type: none"> DVI Connector: DVI-D Female Audio Connector: 3.5mm mini-jack Optical Connector: LC Connector only Stand-Alone Power: Screw terminal block Rack Power: AC line cord
<ul style="list-style-type: none"> • Audio <ul style="list-style-type: none"> Number of Channels: 1-Ch Duplex Analog Audio Audio in/output impedance: 47k Ohm Unbalanced Bandwidth: 20Hz ~ 20KHz Bit Resolution: 24-Bit Signal-to-Noise Ratio(SNR): > 80 dB 	<ul style="list-style-type: none"> • Electrical & Mechanical <ul style="list-style-type: none"> Input Power Requirements: DC 5V@2A Power Adapter: AC 100V~240V Power Consumption: < 3W Stand-Alone Dimensions: 200mm × 135mm × 33mm Card for 4U Rack Dimensions: 145mm × 170mm × 20mm Shipping Weight: 2.5kg (include TX & RX)
	<ul style="list-style-type: none"> • Environmental <ul style="list-style-type: none"> Operating Temperature: -45° C ~ +75° C Storage Temperature: -45° C ~ +85° C Relative Humidity: 0%~95% (non-condensing) MTBF: >100,000 hours