

### VGA Fiber Optic Extender

1-Channel VGA + 1 Duplex Audio + 1 Duplex Data

1  
VGA

#### System Design

VGA, Audio & Data Fiber Optic Extenders  
 VOS-1VGA-LADT/R provides for the digital transmission of 1-Channel uncompressed VGA computer video resolutions up to WUXGA 1920x1200 and HDTV RGB Component Video resolutions up to 1080p, support 1 duplex stereo audio, 1 duplex RS232/485 data, also support one VGA loopback output for local display and dual VGA outputs for two displays in the remote end.

1  
Audio

1  
Data

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



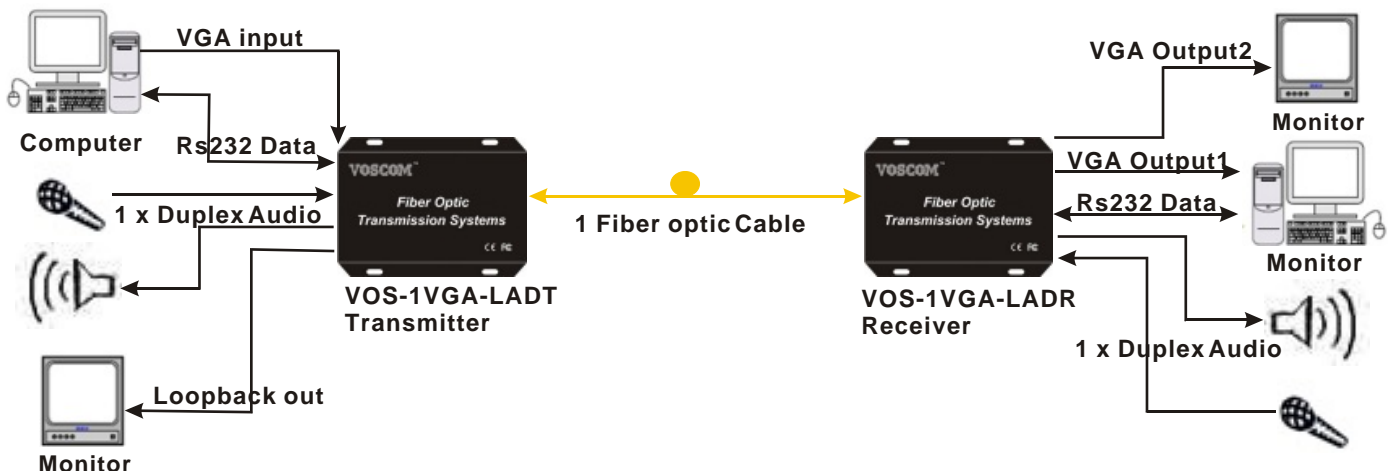
Single-Mode or Multi-Mode, VOS-1VGA-LADT/R only can support LC optical connector, support Single-mode 15km or Multi-mode 300m over one single-fiber.

Ethernet

#### Features

- Uncompressed VGA, stereo audio, and RS-232/485 data over one fiber
- Supports VGA resolutions up to WUXGA 1920x1200
- Supports HDTV resolutions of 480p, 720p and 1080p(RGBHV / RGB)
- 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



# VGA Fiber Optic Extenders

## Ordering Information

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

### Note:

- The Optical Power Budget data fit Multit-mode(62.5/125  $\mu$ m),Single-Mode(9/125  $\mu$ m).
- 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

<ul style="list-style-type: none"> <li>• Video           <ul style="list-style-type: none"> <li>Number of Channels: 1-Ch VGA / RGB / RGBHV</li> <li>Data Rate: 4.25Gbps</li> <li>Maximum resolution: 1920x1200 or 1080P</li> <li>Analog Video Output Level: 1V p-p</li> <li>Signal-to-Noise Ratio(SNR): &gt; 60 dB</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Connectors           <ul style="list-style-type: none"> <li>VGA Connector: HD-15 Female</li> <li>Audio Connector: 3.5mm mini-jack</li> <li>Data Connector: Terminal Block</li> <li>Optical Connector: LC Connector only</li> <li>Stand-Alone Power: Screw terminal block</li> <li>Rack Power: AC line cord</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• Audio           <ul style="list-style-type: none"> <li>Number of Channels: 1-Ch Duplex Analog Audio</li> <li>Audio in/output impedance: 47k Ohm Unbalanced</li> <li>Bandwidth: 20Hz ~ 20KHz</li> <li>Bit Resolution: 24-Bit</li> <li>Signal-to-Noise Ratio(SNR): &gt; 80 dB</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Electrical &amp; Mechanical           <ul style="list-style-type: none"> <li>Input Power Requirements: DC 5V@2A</li> <li>Power Adapter: AC 100V~240V</li> <li>Power Consumption: &lt; 3W</li> <li>Stand-Alone Dimensions: 200mm × 135mm × 33mm</li> <li>Card for 4U Rack Dimensions: 145mm × 170mm × 20mm</li> <li>Shipping Weight: 2.5kg (include TX &amp; RX)</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• Data           <ul style="list-style-type: none"> <li>Data Formats: 1-Channel Duplex RS232 &amp; Rs485 Data</li> <li>Data Rate: DC to 115.2Kbps</li> <li>Bit Error Rate: 10E-9</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Environmental           <ul style="list-style-type: none"> <li>Operating Temperature: -45° C ~ +75° C</li> <li>Storage Temperature: -45° C ~ +85° C</li> <li>Relative Humidity: 0%~95% (non-condensing)</li> <li>MTBF: &gt;100,000 hours</li> </ul> </li> </ul>