

VGA Fiber Optic Extender 1-Channel VGA over Fiber

1 → VGA

System Design

VGA Fiber Optic Extenders

VOS-1VGA-LT/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, and support one VGA loopback output for local display and dual VGA outputs for two displays in the remote end.



Audio

Stand-alone or rack-mount. All VGA extenders over Fiber of VOS-1VGA-LT/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).

Data

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

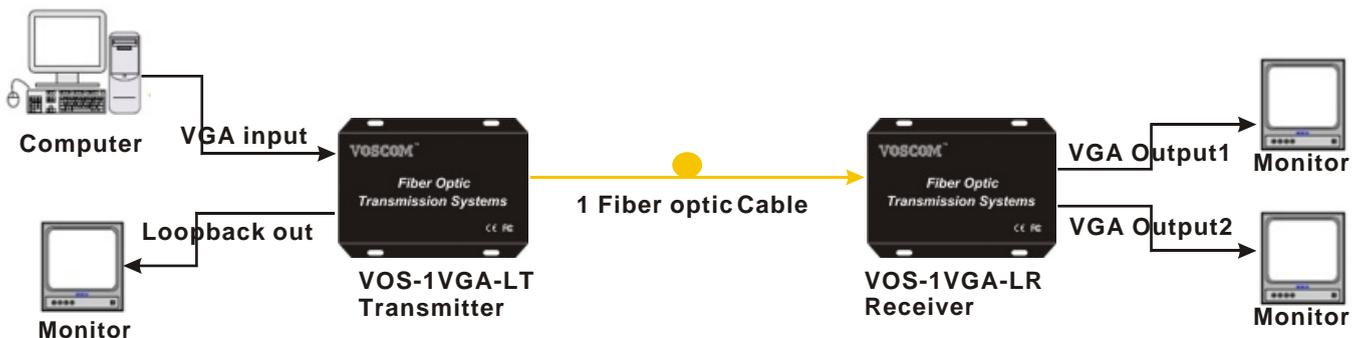


Ethernet

Features

- Uncompressed VGA 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-LT	VOS-1VGA-LR	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

• Video

Number of Channels: 1-Ch VGA / RGB / RGBHV
 Data Rate: 4.25Gbps
 Maximum resolution: 1920x1200 or 1080P
 Analog Video Output Level: 1V p-p
 Signal-to-Noise Ratio(SNR): > 60 dB

• Connectors

VGA Connector: HD-15 Female
 Optical Connector: LC Connector only
 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: 200mm × 135mm × 33mm
 Card for 4U Rack Dimensions: 145mm × 170mm × 20mm
 Shipping Weight: 2.5kg (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