

VGA Fiber Optic Extender

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

1
VGA

System Design

VGA, Audio & Data Fiber Optic Extenders
 ZW-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 ZW-1VGA-LADT/R comes in an insert card version. The cards can be inserted into our 16-slot, 19inch 4U rack-mountable card cage (ZW-CH04-HD16).



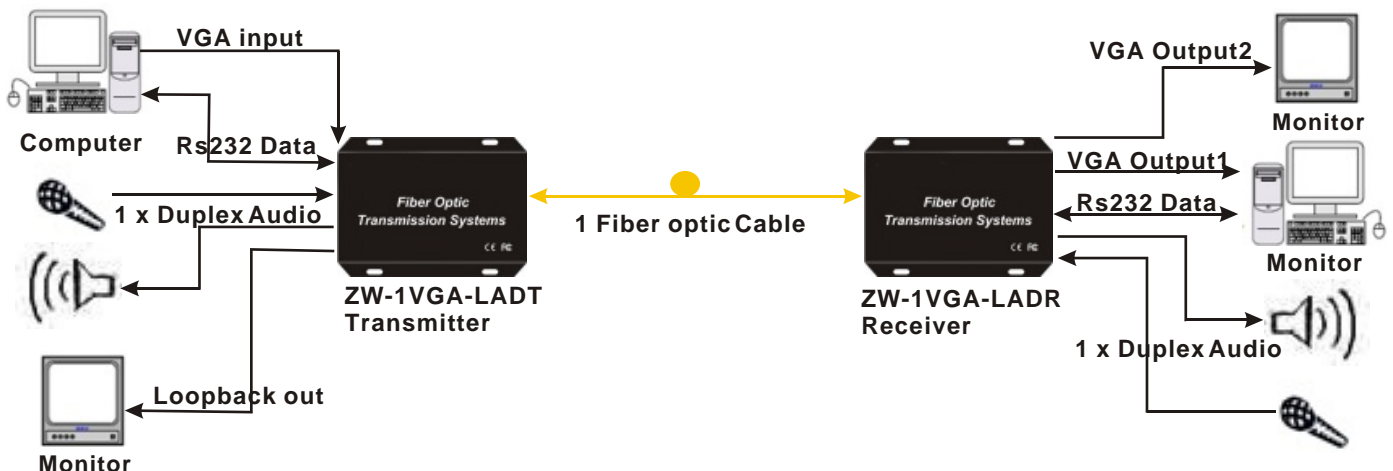
Single-Mode or Multi-Mode, ZW-1VGA-LADT/R only can support LC optical connector, support Single-mode 15km or Multi-mode 300m over one single-fiber.

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				
ZW-1VGA-LADT	ZW-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 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-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 	<ul style="list-style-type: none"> • Connectors <ul style="list-style-type: none"> VGA Connector: HD-15 Female Audio Connector: 3.5mm mini-jack Data Connector: Terminal Block 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"> • Data <ul style="list-style-type: none"> Data Formats: 1-Channel Duplex RS232 & Rs485 Data Data Rate: DC to 115.2Kbps Bit Error Rate: 10E-9 	<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