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# ST-FOVARS-LC

## VGA Extender via Fiber Optic Cable

### User Manual



# 1. Description

The ST-FOVARS-LC Fiber optic extender provides extension of VGA signals long distances over one simplex LC single-mode or multimode fiber optic cable. It supports high resolution up to 1080P, transmitter local output, RS232 signal and external audio transmission function. The extender can be used for a wide range of applications requiring long distance transmission of high resolution with high quality, good stability and powerful security.

# 2. Features

- Transmits VGA video signals up to 6.2 miles (10km) over one simplex single-mode LC fiber optic cable or up to 1640 feet (500 meters) over one simplex 50 or 62.5-micron multimode LC fiber optic cable
- Supports video resolution up to 1920\*1080@60Hz
- Supports external stereo audio unidirectional transmission
- Supports local and remote VGA monitors
- Support RS232 signal bidirectional transmission, baud rate self-adaptive
- Supports the DDC2B protocol
- Built-in default EDID table
- Low RFI/EMI for sensitive applications
- Plug-and-play functionality- no software needed

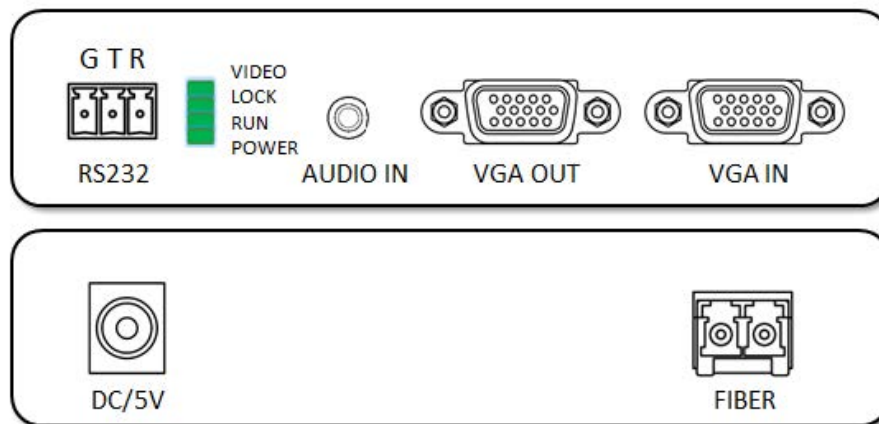
### 3. Specifications

Parameter		Description
Video	Standards	VGA
	Maximum pixel clock	380MHz
	Resolution	1920x1080@60Hz 1600x1200@60Hz / 1680x1050@60Hz 1280x1024@60Hz / 75Hz 1280x800@60Hz / 1280x768@60Hz 1280x720@60Hz / 1024x768@60Hz / 75Hz 800x600@60Hz / 75Hz
	Impedance	75Ω
Audio	Interface	3.5mm stereo audio jack
	Format	44.1K,48K,96K,176K,192K
	Signal type	Stereo
RS232	Interface	3-pin screw terminals
	Signal direction	Bidirectional
	Baud rate	Self-adaptive, Max : 115200bps
	Data bits	8
Optical fiber	Interface	LC connector
	Fiber type	simplex LC Single-mode fiber simplex LC Multimode fiber
	Transmission	10km (single-mode) 500m (multimode (50 or 62.5 micron))
Other	Power supply	DC 12V/1A
	Power dissipation	MAX 6W
	Temperature	Operating: -5°C ~ +70°C
	Humidity	Operating: 5% ~ 90%
	Dimension (WxDxH)	6.06 x 4.53 x 0.99 In. (154*115*25mm )

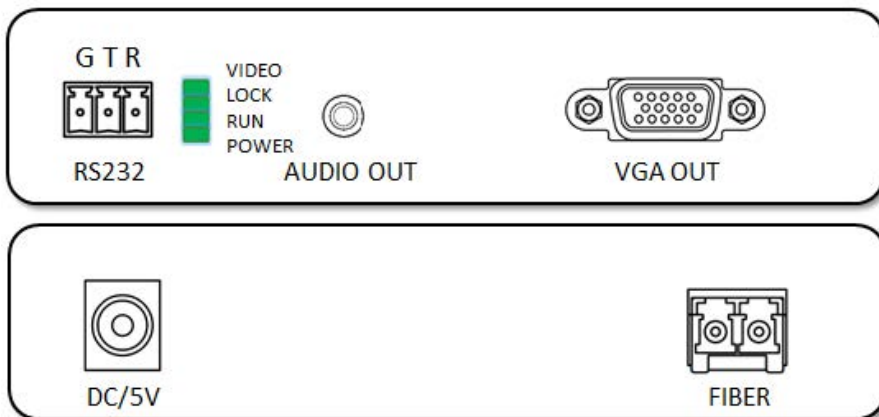
**Note: The "VGA Out" port on the Transmitter supports 1920x1200@60Hz resolution, but only that port will support it. The maximum resolution supported by the Receiver is 1920x1080@60Hz.**

## 4. Panel

Transmitter:



Receiver:



Port name	Description
VGA IN/OUT	VGA signal input/output
AUDIO IN/OUT	Stereo audio signal input/output
RS232	Serial port ( G: Ground, T: transmit, R: receive )
DC/5V	Power adapter socket
FIBER	SFP module---LC connector
LED indicator	Description
VIDEO	Video signal connection indicator
LOCK	Video signal lock indicator
RUN	System status indicator
POWER	System power indicator

## 5. Package list

- VGA optical fiber transmitter ..... 1 pc
- VGA optical fiber receiver ..... 1 pc
- Fiber optic module TX/RX ..... 1 set
- Power adapter .....2 pcs
- User manual ..... 1 pc
- 3-Position Terminal Block..... 2 pc

## 6. Installation

1. Connect the provided DC/12V power supplies to the power socket of the Transmitter and the Receiver.
2. Connect a VGA cable between the VGA input port of the Transmitter and the VGA output port of the video source.
3. Connect the VGA output port of Receiver to the display device with VGA cable.
4. Connect the Transmitter optical port to the Receiver optical port using one simplex LC fiber optic cable.

## 7. Diagram

