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ST-FOVARS-LCV2

VGA Extender via One LC Singlemode/ Multimode Fiber Optic Cable

User Manual



Front and Rear View of ST-FOVARS-LCV2 Transmitter

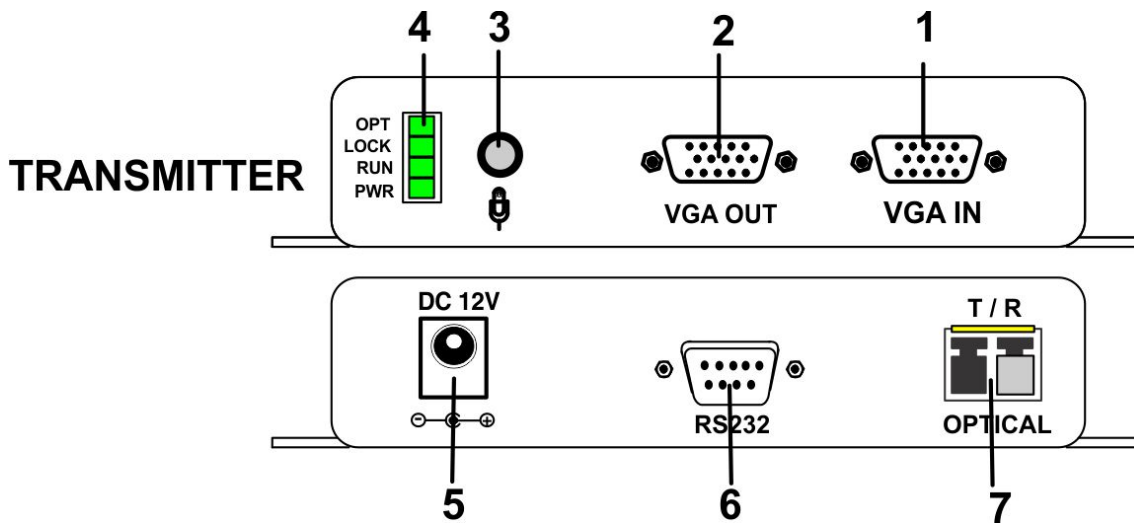
1. Description

The XTENDEX® VGA Extender via Fiber Optic Cable locates a VGA display, stereo audio speakers and RS232 up to 6.2 miles (10 kilometers) away from a computer using a single LC singlemode fiber optic strand and 1,640 feet (500 meters) using multimode fiber optic cable. Each extender consists of a transmitter that connects to a computer and also supplies video to a local monitor, and a receiver that connects to a monitor.

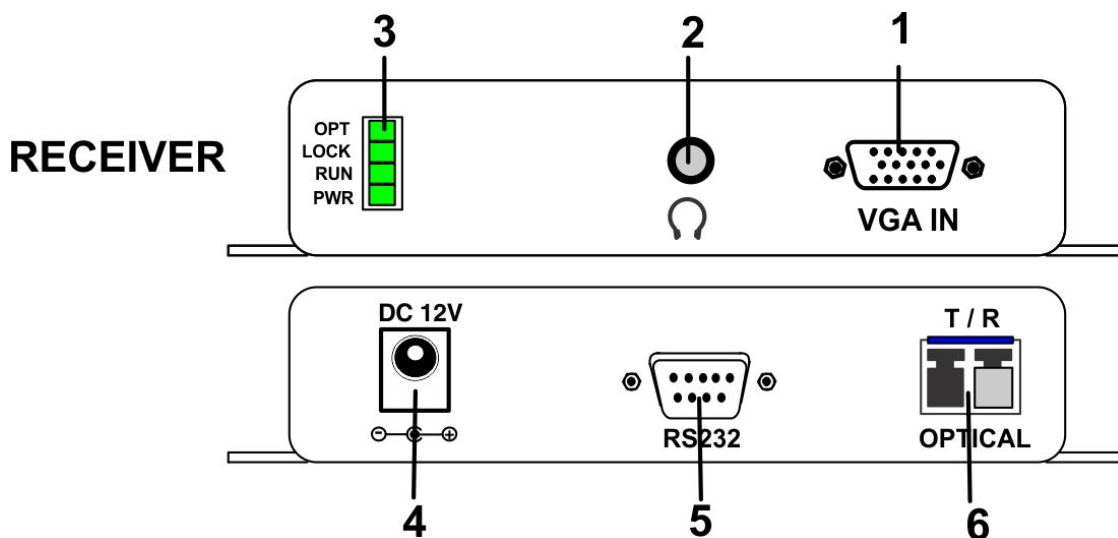
2. Features

- Transmits VGA video signals up to 6.2 miles (10km) over one simplex 9-micron 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 unidirectional 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. Panel



No.	Label	Port	Function
1	VGA IN	15HD Female	Connect VGA from Source
2	VGA OUT	15HD Female	Connect VGA to local monitor
3	MICROPHONE	3.5mm Jack	Connect Audio Input
4	LEDS	LEDs	OPT- Video signal connection indication LOCK- Video signal lock indicator RUN- System status indicator POWER- System power indicator
5	PWR	5.5x2.1 Jack	Connect power supply
6	RS232	DB9 Female	Connect RS232 communication cable
7	OPTICAL	SFP Transceiver	Connect Simplex Fiber cable going to Receiver



No.	Label	Port	Function
1	VGA OUT	15HD Female	Connect VGA to local monitor
2	HEADPHONES	3.5mm Jack	Connect Audio Output to self-powered speakers
3	LEDS	LEDs	OPT- Video signal connection indication LOCK- Video signal lock indicator RUN- System status indicator POWER- System power indicator
4	PWR	5.5x2.1 Jack	Connect power supply
5	RS232	DB9 Female	Connect RS232 communication cable
6	OPTICAL	SFP Transceiver	Connect Simplex Fiber cable going to Transmitter

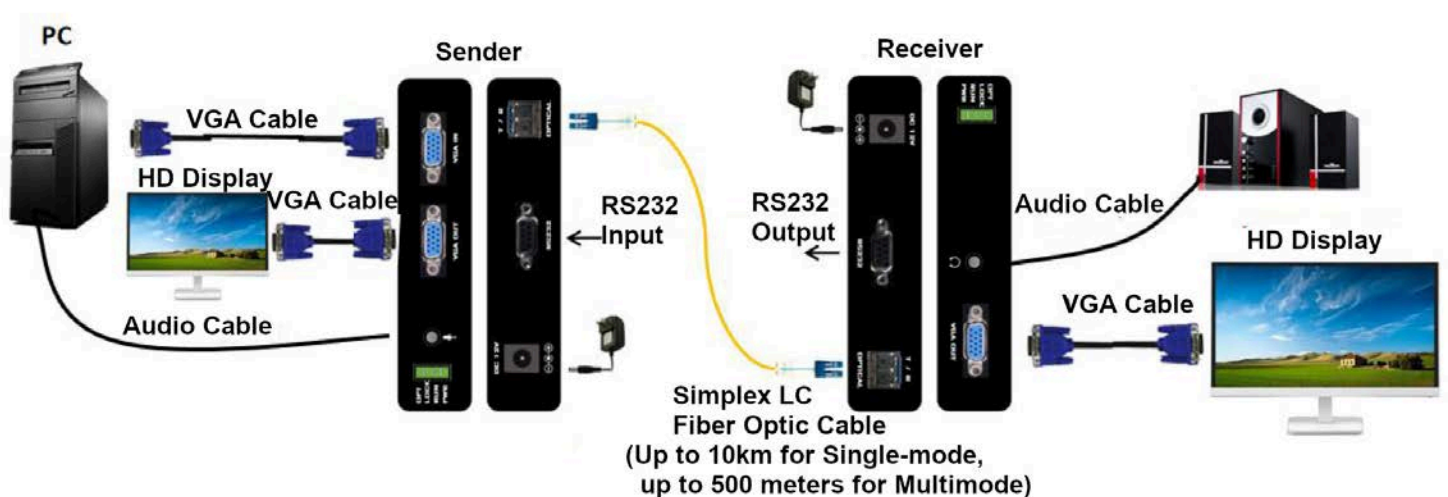
4. Package list

- VGA optical fiber transmitter 1 pc
- VGA optical fiber receiver 1 pc
- Fiber optic module TX/RX 1 set
- Power adapter2 pcs
- User manual location slip 1 pc

5. 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.

6. Diagram



7. Specifications

Parameter		Description
Video	Standard	VGA
	Max. pixel clock	380MHz
	Resolution	1920x1080@60Hz / 1600x1200@60Hz / 1600x1024@ 60Hz 1680x1050@60Hz /1600x900@60Hz / 1366x768@60Hz 1360x768@60Hz /1280x1024@60Hz / 1280x1024@75Hz 1280x960@60Hz / 1280x800@60Hz / 1280x768@60Hz 1280x720@60Hz / 1152x864@60Hz / 1024x768@60Hz 1024x768@75Hz / 800x600@60Hz / 800x600@75Hz
	Impedance	75 Ohm
Audio	Interface	3.5mm stereo audio jack
	Format	44.1K,48K,96K,176K,192K
	Signal type	Stereo
RS232	Interface	DB9 Female
	Signal Direction	Unidirectional (Tx to Rx)
	Baud Rate	Self-adaptive, Max : 115200bps
	Data bits	8
Optical Fiber	Interface	LC connector
	Fiber type	Simplex LC Single-mode
		Simplex LC Multimode
	Transmission	10km (single-mode) (9-micron)
500m (multimode (50 or 62.5 micron))		
Other	Power supply	12V/ 1A
	Power dissipation	Tx: 3.6W Rx: 3.0W
	Operating Temperature	-5°C to 70°C
	Humidity	5% to 90% Non-condensing
	Dimensions (WxDxH)	5.24x4.17x1.05 In. (133.2x106x26.5mm)

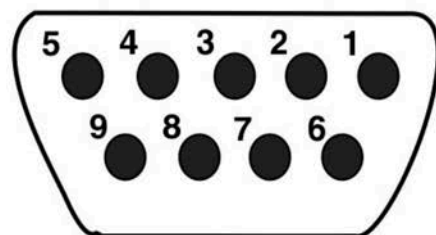
8. RS232

DB9 Pinout

Pin	Transmitter DCE Signals	Receiver DCE Signals
1	NC	NC
2	NC	TxD
3	RxD	NC
4	NC	NC
5	GND	GND
6	NC	NC
7	NC	NC
8	NC	NC
9	NC	NC

NC = No Connect

Pinout of DB9 on ST-FOVARS-LCV2



**Mating Face
of DB9 Female**