

Gefen

®

VGA Extender SRN

EXT-VGA-141SRN

User Manual



www.gefen.com

ASKING FOR ASSISTANCE

Technical Support:

Telephone (818) 772-9100
(800) 545-6900

Fax (818) 772-9120

Technical Support Hours:

8:00 AM to 5:00 PM Monday thru Friday PST.

Write To:

Gefen, LLC.
c/o Customer Service
20600 Nordhoff St
Chatsworth, CA 91311

www.gefen.com
support@gefen.com

Notice

Gefen, LLC reserves the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.

VGA Extender SRN is a trademark of Gefen, LLC.

© 2010 Gefen, LLC., All Rights Reserved

All trademarks are the property of their respective companies

Rev A1

CONTENTS

- 1 Introduction
- 2 Operation Notes
- 3 Features
- 4 Sender Unit Layout
- 5 Sender Unit Descriptions
- 6 Receiver Unit Layout
- 7 Receiver Unit Descriptions
- 8 Connecting the VGA Extender SRN
 - 8 Wiring Diagram
- 9 Operating The VGA Extender SRN
 - 9 Adjusting the Signal Quality
- 10 Network Cable Wiring Diagram
- 11 Specifications
- 12 Warranty

INTRODUCTION

Congratulations on your purchase of the VGA Extender SRN. Your complete satisfaction is very important to us.

Gefen

Gefen delivers innovative, progressive computer and electronics add-on solutions that harness integration, extension, distribution and conversion technologies. Gefen's reliable, plug-and-play products supplement cross-platform computer systems, professional audio/video environments and HDTV systems of all sizes with hard-working solutions that are easy to implement and simple to operate.

The Gefen VGA Extender SRN

The VGA Extender SRN allows users to extend video signals far beyond the A/V rack. The VGA Extender SRN can be used to extend an analog VGA signal to cover distances up to 150 feet (45 meters). Industry standard Category 5e (CAT-5e) cable is used for the extension.

How It Works

The VGA extender SRN sender unit connects to your computer using the supplied VGA cable. The SRN receiver connects to your monitor - up to 150 feet (45 meters) away. One CAT-5 cable connects the sender and the receiver to each other, extending your video. The video transmitter and receiver boxes are small and unobtrusive, allowing installation in small spaces.

OPERATION NOTES

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE VGA EXTENDER SRN

- Display information (EDID) is not sent back to the source. Standard VESA resolutions should be output by most computers without the need of an EDID. If using a non-VESA standard resolution or if EDID is needed, an EDID storage and relay device is necessary. Gefen recommends the use of a DVI Detective (part# EXT-DVI-EDID, EXT-DVI-EDIDN, or EXT-DVI-EDIDP) with two VGA to DVI adapters.
- Use industry standard Category-5 (CAT-5) cable to operate the VGA Extender SRN system. CAT-5e cable is preferred.
- Please connect all the cables between the computer and the VGA Extender SRN before powering up the VGA Extender SRN unit.
- The VGA Extender SRN units are housed in a metal box for better RF shielding.

FEATURES

Features

- Extends any VGA or high definition component display up to 150 feet (45 meters)
- Supports resolutions up to 1080p, 1920 x 1200, and 2K
- Equalization trim pot for brightness adjustment
- Uses only one CAT-5e cable for extension

Package Includes

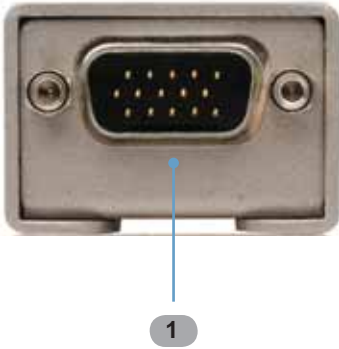
- (1) VGA Extender SRN - Sender Unit
- (1) VGA Extender SRN - Receiver Unit
- (1) 6 ft. VGA cable (M - F)
- (1) 5V DC Power Supply
- (1) User Manual

SENDER UNIT LAYOUT

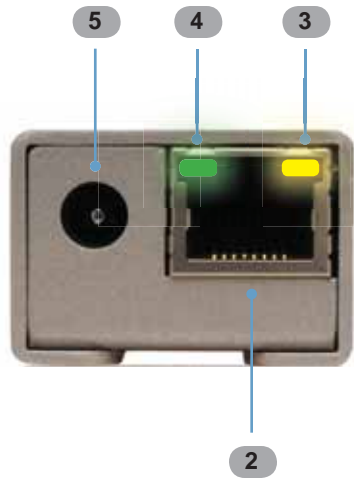
Top View



Front View



Back View



SENDER UNIT DESCRIPTIONS

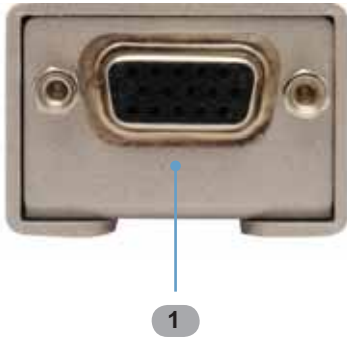
- 1 VGA In**
Connect a VGA cable from the computer to this port.
- 2 CAT-5**
Connect a CAT-5e cable from this connector to the CAT-5e connector on the Receiver Unit.
- 3 PW**
This LED indicator will glow bright yellow-orange once the included 5 V DC power supply is connected between the Sender Unit and an available electrical outlet.
- 4 GL**
This LED indicator will glow bright green, indicating a solid link, once the VGA source is connected to the Sender Unit.
- 5 5V**
Connect the included 5 V DC power supply to this power receptacle.

RECEIVER UNIT LAYOUT

Top View



Front View



Back View



RECEIVER UNIT DESCRIPTIONS

1 *VGA Out*

Connect a VGA cable from the port to the computer display.

2 *FO*

This is the Focus trim pot. Use this trim pot to compensate for distance and cable skew compensation. See page 9 for details.

3 *BR*

This is the Brightness trim pot. Use this trim pot to adjust the brightness of the picture.

4 *PW*

This LED indicator will glow bright yellow-orange once the Receiver Unit is connected to the Sender Unit using a CAT-5e cable.

5 *GL*

This LED indicator will glow bright green, indicating a solid link, once a VGA display is connected to the Receiver Unit.

CONNECTING THE VGA EXTENDER SRN

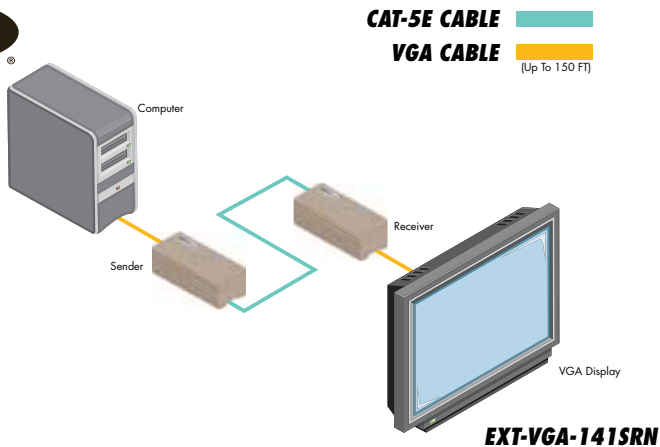
How to Connect the VGA Extender SRN

1. Connect the VGA Extender SRN sender unit to the VGA output on the back of your computer. The supplied six foot M-F VGA cable connects the CPU and sender unit together.
2. Connect the VGA Extender SRN receiver unit to your monitor with the VGA cable that is attached to your monitor.
3. Connect CAT5 cable between the VGA Extender SRN sender and receiver.
4. Plug the 5-Volt power supply into the sender unit. The VGA Extender SRN receiver unit will draw power from the sender.



Display information (EDID) is not sent back to the source. Standard VESA resolutions should be output by most computers without the need of an EDID. If using non-VESA-standard resolutions or if EDID is needed, an EDID storage and relay device is needed. Gefen recommends using the DVI Detective (Gefen Part No. EXT-DVI-EDID, EXT-DVI-EDIDN, or EXT-DVI-EDIDP) with two VGA to DVI adapters.

Wiring Diagram for the VGA Extender SRN

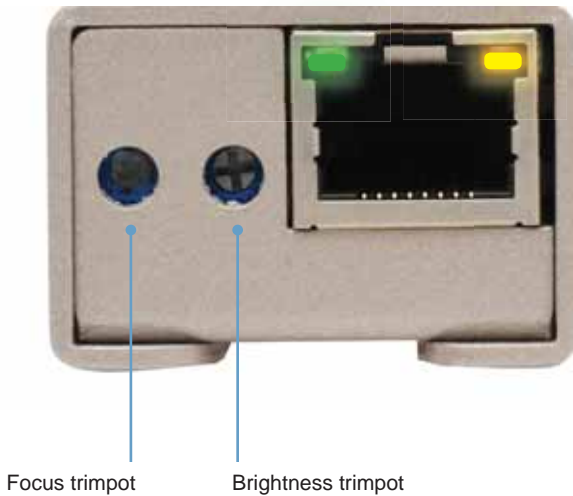


Attention: This product should always be connected to a grounded electrical socket.

OPERATING THE VGA EXTENDER SRN

Adjusting the Signal Quality

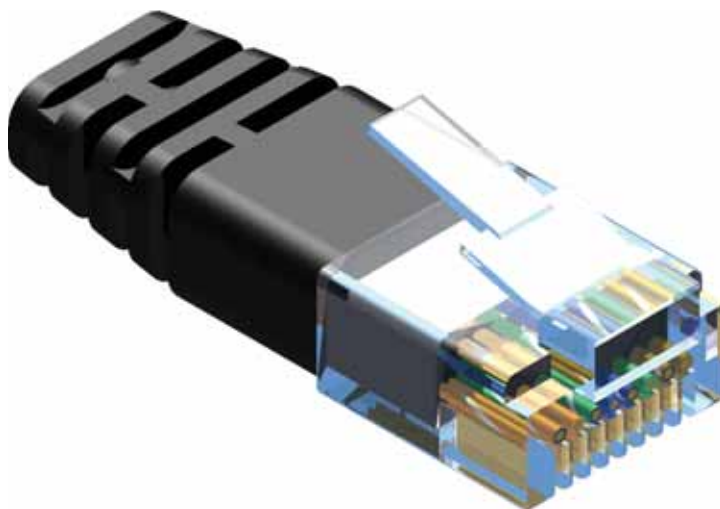
The Brightness and Focus adjustments are found on the Receiver Unit and will help compensate for issues that can be introduced by outside interference and cable skew variances.



If the outgoing image is too dark or too bright, the brightness trim pot can be tuned to help brighten the image. If there is a ghosting or blurring effect on the image, or if there is no output video or the image contains video artifacts such as video noise / snow, use the steps below to adjust the Trim Pot.

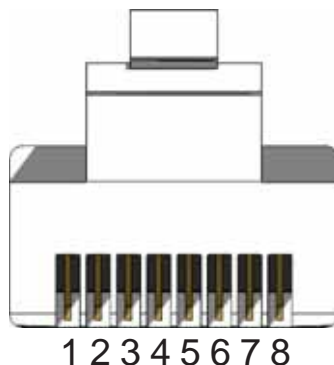
1. Insert a small flat head device, such as a screw driver into either the brightness or focus trim pot hole.
2. Turn the trim pot in millimeter increments in either a clockwise or counter-clockwise direction until the desired brightness and focus are reached.
3. Remove the adjustment device from the trim pot hole.

NETWORK CABLE WIRING DIAGRAM



Gefen has specifically engineered their products to work with the TIA/EIA-568-B specification. Please adhere to the table below when field terminating cable for use with Gefen products. Failure to do so may produce unexpected results and reduced performance.

Pin	Color
1	Orange / White
2	Orange
3	Green / White
4	Blue
5	Blue / White
6	Green
7	Brown / White
8	Brown



CAT-5, CAT-5e, and CAT-6 cabling comes in stranded and solid core types. Gefen recommends using solid core cabling. CAT-6 cable is also recommended for best results.

Each cable run must be one continuous run from one end to the other. No splices or use of punch down blocks.

SPECIFICATIONS

Video Amplifier Bandwidth	350 MHz
Input Video Signal	1.2 Volts p-p
Input Sync Signal	5 Volts p-p (TTL)
Horizontal Frequency Range	15 - 70 KHz
Vertical Frequency Range	30 - 170 Hz
Video In	HD-15, male
Video out	HD-15, female
Link Connector	RJ-45, shielded
Power Supply	5V DC
Power Consumption	5 W (max. per unit)
Dimensions	3.7" W x 1.8" H x 1.4" D
Shipping Weight	2 lbs.

WARRANTY

Gefen warrants the equipment it manufactures to be free from defects in material and workmanship.

If equipment fails because of such defects and Gefen is notified within two (2) years from the date of shipment, Gefen will, at its option, repair or replace the equipment, provided that the equipment has not been subjected to mechanical, electrical, or other abuse or modifications. Equipment that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for ninety (90) days from the day of reshipment to the Buyer.

This warranty is in lieu of all other warranties expressed or implied, including without limitation, any implied warranty or merchantability or fitness for any particular purpose, all of which are expressly disclaimed.

1. Proof of sale may be required in order to claim warranty.
2. Customers outside the US are responsible for shipping charges to and from Gefen.
3. Copper cables are limited to a 30 day warranty and cables must be in their original condition.

The information in this manual has been carefully checked and is believed to be accurate. However, Gefen assumes no responsibility for any inaccuracies that may be contained in this manual. In no event will Gefen be liable for direct, indirect, special, incidental, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. The technical information contained herein regarding the features and specifications is subject to change without notice.

For the latest warranty coverage information, refer to the Warranty and Return Policy under the Support section of the Gefen Web site at www.gefen.com.

PRODUCT REGISTRATION

Please register your product online by visiting the Register Product page under the Support section of the Gefen Web site.



20600 Nordhoff St., Chatsworth CA 91311
1-800-545-6900 818-772-9100 fax: 818-772-9120
www.gefen.com support@gefen.com



This product uses UL listed power supplies.