

ST122UTPA

Instruction Manual

VGA Video Extender

VGA Video Extender over Cat5
with Audio

CONVERGENTAV

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FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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Introduction

Packaging Contents

- 1 x ST122UTPA Local Unit
- 1 x ST122UTPA Remote Unit
- 1 x Mounting Bracket kit
- 2 x Power Adapters
- 1 x Instruction Manual

System Requirements

- VGA enabled video source and display device
- 3.5mm mini-jack enabled audio source and speaker
- Available power outlet at local and remote locations

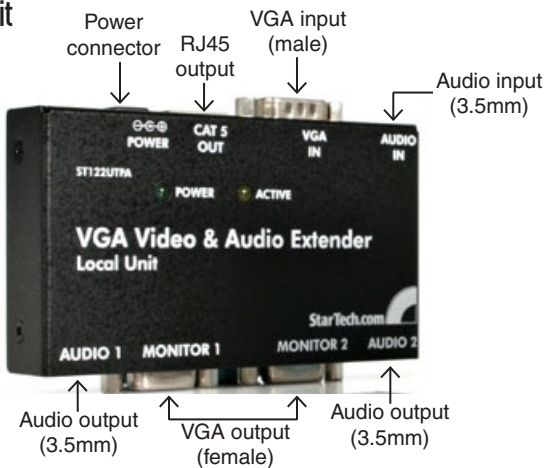
Installation

NOTE: To prevent potential electrical damage to the units in some environments, ensure that the chassis is properly grounded.

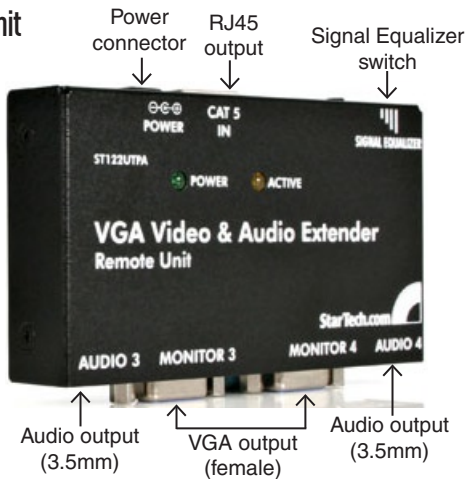
Hardware Installation

This product is composed of two different units: the Local Unit and the Remote Unit. The Local Unit takes the output from an analog stereo audio and VGA video signal source (usually a computer) and transmits it to the Remote Unit over Category 5 Ethernet cable. The remote display(s) (monitor, projector, etc) and speaker(s) connect to the Remote Unit using standard VGA and 3.5mm mini-jack connections respectively and displays the image and audio from the local computer onto the remote display(s) and speaker(s).

Local Unit



Remote Unit



Preparing Your Site

1. Determine where the local computer will be located and set up the computer.
2. Determine where the remote display(s) will be located and place/mount them appropriately.
3. If you are using surface cabling, ensure you have enough Cat5 unshielded twisted pair (UTP) Ethernet cabling to connect the Local Unit to the Remote Unit's location, and that each end is terminated with a RJ45 connector.

OR

If you are using premise cabling, ensure that the Cat5 unshielded twisted pair (UTP) Ethernet Cabling between the Local Unit and the Remote Unit has been properly terminated in a wall outlet in each location and there is a patch cable long enough to connect the Remote Unit and the Local Unit to their respective outlets.

Installing the Local Unit

1. Place the Local Unit near the local (source) computer.
2. Switch off the computer and disconnect any existing VGA cables.
3. If desired, connect the VGA cable from the local computer display(s) to the "Monitor" ports on the Local Unit. This will enable you to see video locally while an image is transmitted to the remote display. You may choose to connect up to two local displays, one for each "Monitor" port. Both outputs display the same image.
4. If desired, connect a set of computer speakers to the Audio 1 and/or Audio 2 outputs on the local unit. This allows audio to be played locally, while still being transmitted to the Remote Unit. A separate speaker setup can be connected to the Audio outputs each. The audio output from each will be the same.
5. Connect a male-to-female DE-15 VGA cable (not provided) to the VGA Output on the local computer. Connect the opposite end to the VGA IN port on the Local Unit.

6. Connect a 3.5mm mini-jack cable (not included) from the audio output on the source device to the “Audio IN” port on the Local Unit.
7. Connect the Cat5 cable connection to the “CAT5 OUT” on the Local Unit.
8. Connect the Power Adapter (provided) into an appropriate power source and plug the opposite end into the power connector on the Local Unit. The POWER LED will light up.

Installing the Remote Unit

1. Connect the Remote Unit to the Cat5 cable connection from the Local Unit, to the “CAT5 IN” port.
2. Connect the VGA cable from the remote display(s) to the opposite side of the Remote Unit, marked “Monitor”. You may choose to have either one or two displays at the remote location connected to the Remote Unit. Both outputs display the same image.
3. Connect the 3.5mm mini-jack cable from the remote speakers (or speakers built into the display device) to the Audio 1 and/or Audio 2 port(s) on the Remote Unit. Both will output the same audio stream.
4. Connect the Power Adapter (provided) into an appropriate power source and plug the opposite end into the power connector on the Remote Unit. The POWER LED will light up.

CAUTION: The Category 5 Ethernet cables that connect the Local and Remote Units carry electrical current and should not be plugged in to other devices, as they may cause damage. We strongly recommend marking the Ethernet cables you are using with this product at both locations for easy identification.

Completing the Installation

1. Switch on the local computer and local display(s) (if used).
2. Switch on the display(s) at the remote location.
3. Verify that the remote display is properly displaying the image from the local computer connected to the Local Unit.

CAT5 cable length		Equalizer position
meter	feet	
0 ~ 40	0 ~ 131	—
40 ~ 80	131 ~ 262	—
80 ~ 120	262 ~ 394	—
120 ~ 160	394 ~ 525	—

4. Use the Signal Equalizer to improve the image on the remote display(s) based on the approximate length of Ethernet cable between the Local and Remote Units.

Driver Installation

No driver installation is required for this video extender as it is an external hardware only solution, invisible to the computer system.

Troubleshooting

The following section provides troubleshooting help. The solutions are arranged in the order they should be attempted in most situations. If you continue to have difficulties after attempting the solutions in this section, please contact StarTech.com technical support.

Symptom: The remote displays are black or display a “no signal” message.

Cause: The Remote Unit is not receiving a signal from the Local Unit.

Remedy:

1. Check that the display is receiving power and that all cables are connected.
2. Check that the display is connected to the Remote Unit.

Symptom: The remote displays do not display an image when the local computer wakes up from Standby Mode.

Remedy: Power the remote displays OFF and ON again.

Symptom: One or more remote displays is distorted, noisy, or displays a “signal error” or similar error message.

Cause: The screen resolution and/or refresh rate on the local computer may be set too high for the capabilities of the remote display.

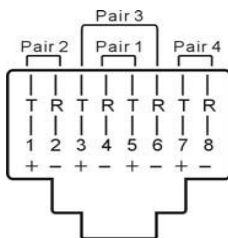
Remedy:

1. Adjust the local computer to a lower resolution and refresh rate until the remote display shows an image.
2. Gradually increase the resolution and refresh rate on the local computer until the remote displays ceases to display an image.
3. Return the resolution and refresh rate on the local computer to the highest resolution and refresh rate setting that displayed an image on the remote display.
4. Adjust the Signal Equalizer on the Remote Unit for best performance.

NOTE: If you are still unable to see an image at the remote location after trying the above solutions, it is recommended that you verify the Ethernet cable installation to the remote display before calling technical support. This can be used using a standard cable tester. If you do not have a cable tester, contact a local computer service or wiring professional.

Wiring Diagram

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



Specifications

Connectors (Local)	1 x DE-15 VGA male 1 x DE-15 VGA female 2 x 3.5mm stereo mini-jack 1 x RJ45 1 x Power Connector
Connectors (Remote)	2 x DE-15 VGA female 2 x 3.5mm stereo mini-jack 1 x RJ45 1 x Power Connector
LEDs	1 x Power, 1 x Activity
Maximum Distance	150m (500 ft) @ 1024x768
Maximum Resolution	1440x900 @ 50m (150 ft)
Power Adapter	9VDC, 600mA, center positive
Dimensions	60.0mm x 83.0mm x 20.0mm
Weight	181g

Technical Support

StarTech.com's lifetime technical support is an integral part of our commitment to provide industry-leading solutions. If you ever need help with your product, visit www.startech.com/support and access our comprehensive selection of online tools, documentation, and downloads.

Warranty Information

This product is backed by a one year warranty.

In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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