

2 Port VGA Extender over Cat5

ST1212T



*actual product may vary from photos

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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

The ST1212T 2 Port VGA Video Extender over Cat 5 is designed for use with our ST121 VGA over Cat 5 extension series, offering convenient VGA video distribution at distances of up to 492 feet (150 meters) using standard Cat 5 (or better) cabling.

Comprised of the transmitter unit only, the ST1212T requires one Receiver Unit (ST121R) per display that you are connecting.

For added versatility, the VGA over Cat 5 Repeater (ST121EXT) can be used to extend the distance between the transmitter and receiver by an additional 492-feet (150 meters), for a total distance of 984-feet (300 meters). Similarly, up to 3 repeater units can be used between transmitter and receiver, enabling you to connect monitors at each repeater, while still extending the total distance.

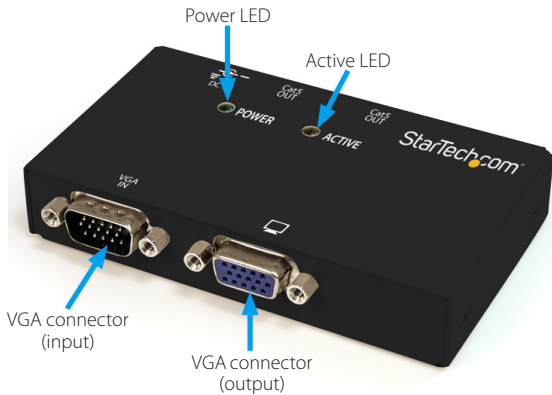
Packaging Contents

- 1 x VGA over Cat5 Video Transmitter
- 1 x Set of rubber feet
- 1 x Universal Power Adapter (NA/UK/EU)
- 1 x Instruction Manual

System Requirements

- VGA enabled video source device (e.g. computer, PVR/DVR, etc.)
- VGA enabled display device (e.g. monitor, projector, HDTV, etc.)
- VGA cabling to connect video source and display(s)
- VGA over Cat5 Receiver module - **StarTech.com ID:** ST121R (sold separately)
- Available AC electrical outlet at transmitter and receiver locations

View 1



View 2



Preparing Your Site

1. Determine where the local video source (i.e. computer, PVR/DVR) will be located and physically set up the video source device.
2. Determine where the remote display(s) will be located and place/mount the display(s) appropriately.

Please note that both extender units (transmitter/receiver) will require a power connection, so please ensure that each unit will be situated near an available electrical outlet.

3. If you are using surface cabling, ensure you have enough Cat5 unshielded twisted pair (UTP) Ethernet cabling to connect the Transmitter Unit to the Receiver Unit's location, and that each end is terminated with a RJ45 Ethernet connector. The cabling should not go through any networking equipment (i.e. router, switch).

OR

If you are using premise cabling, ensure that the Cat5 unshielded twisted pair (UTP) Ethernet Cabling between the Transmitter Unit and the Receiver Unit has been properly terminated in a wall outlet/panel in each location and there is a patch cable long enough to connect the Receiver Unit and the Transmitter Unit to their respective outlets. The cabling should not go through any networking equipment (i.e. router, switch).

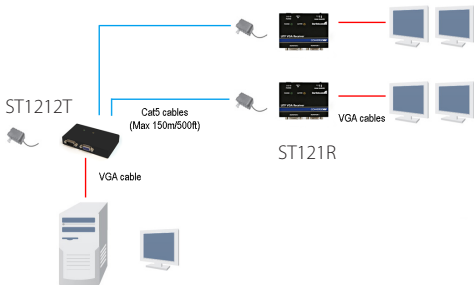
Installation



ATTENTION!

For the best results, please ensure the video extender units and any display equipment are properly grounded. Improper grounding may result in signal noise or potential damage to the extender units.

Hardware Installation



1. Turn off the video source (i.e. computer) and the intended display devices (i.e. monitors).
2. Position the ST121R Receiver Unit(s) (sold separately) near the intended remote display(s).

OPTIONAL: with the optional mounting brackets (**StarTech.com ID: ST121MOUNT**), any ST121 series receiver can be securely mounted to a wall or other surface.



*installation photos are for reference only

3. Position the ST121T Transmitter Unit near the video source.
4. Connect the video source to the "Input" male VGA connector on the Transmitter Unit, using a standard VGA male/female cable. A local display can be connected to the "Monitor Out" VGA connector on the Transmitter Unit.

5. Connect the remote display(s) to the "Monitor Out" ports located on the Receiver Unit using a VGA male/male cable. Each Receiver Unit supports two mirrored (identical) VGA outputs.
 6. Connect the Transmitter Unit to each Receiver Unit, using standard RJ45 terminated Cat5 cable (see "Preparing Your Site").
- OPTIONAL:** If using the ST121EXT Extender Unit(s), the distance between the Transmitter and Receiver units can be extended by up to an additional 150m / 492ft. The ST121EXT also supports 2 VGA outputs and requires an AC electrical outlet.
7. Connect the power adapters (provided) to both Transmitter and Receiver Units.
 8. Turn on the display device first, followed by the video source.

Driver Installation

No driver or software installation is required on the video source device.

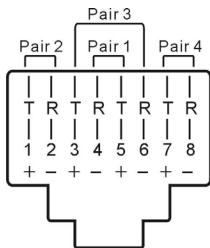
Operation

The ST1212T provides LED indicators, allowing simple operating status monitoring. Once the power adapter has been connected, the Power LED will become illuminated; similarly, when the unit is in use (i.e. transmitting a video signal), the Active LED will become illuminated.

Wiring Diagram

The UTP cable must be wired according to the EIA/TIA 568B industry standard as shown below.

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



Specifications

Video Signal	VGA (RGBHV)
External Connectors	1 x DE-15 VGA female 1 x DE-15 VGA male 2 x RJ45 Ethernet female 1 x DC Power
LEDs	1 x Power 1 x Active/Link
Supported Video Resolutions	1600 x 1200 @ 50m / 150ft 1280 x 1024 @ 100m / 300ft 1024 x 768 @ 150m / 492ft
Maximum Cable Length	150m / 492ft @ 1024 x 768
Power Adapter	9V~12V DC, 600 mA, center positive
Enclosure Material	Metal
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-10°C ~ 60°C (14°F ~ 140°F)
Humidity	0% ~ 80% RH
Dimensions	102.0mm x 60.0mm x 20.0mm
Weight	200g

Technical Support

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For the latest drivers/software, please visit **www.startech.com/downloads**

Warranty Information

This product is backed by a three 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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