

HDMI® Over CAT5/6 Repeater for ST12MHDDC

ST12MHDDCRP



*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 ST12MHDDCRP HDMI® to CAT5 Repeater works with the ST12MHDDC HDMI® Extender Kit to add additional displays and extend the HDMI® over Cat 5/6 signal. With 2 RJ45 outputs per unit, each repeater allows you to add a display, and also daisy-chain the signal to 2 additional ST12MHDDCRP repeaters (sold separately) at up to 330 feet (100 meters) at each level.

Additional repeaters can be added at any time, up to a maximum of 30 broadcasting levels to over 100 displays - allowing for a highly scalable installation that can be used with existing network cable for a cost-effective and flexible extension. Each repeater includes mounting hardware for a clean and professional installation. Plus, because the HDMI® signal is extended over standard Cat5/Cat6 Ethernet cable with RJ45 connectors, proprietary cables aren't necessary which eliminates both expense and the hassle of running specialized cable.

Ideal for High-Definition applications, the HDMI® over UTP extender supports 1080p video resolutions, 7.1 digital audio and features built-in EDID monitor emulation, which ensures native resolution and maximum compatibility with your display or projector, for a convenient plug-and-play installation.

Backed by a StarTech.com 2-year warranty and free lifetime technical support.

Packaging Contents

- HDMI® Repeater
- Power Adapter
- Instruction Manual
- Foot Pad Set

System Requirements

- ST12MHDDC HDMI® Extender Kit
- HDMI® enabled display device(s) One for each Repeater (i.e. television, projector)
- Available AC electrical outlet for transmitter, receiver and optional repeaters
- HDMI® cable for each display

ST12MHDDCRP Repeater Unit

Front View of Repeater



1. HDMI® Out
2. Power Status LED
3. Link Status LED
4. EDID Copy Button

Back View of Repeater



1. Power jack
2. HDMI® Out Link #1 (RJ-45 Connector)
3. HDMI® Out Link #2 (RJ-45 Connector)
4. HDMI® In Link (RJ-45 Connector)

ST12MHDDC HDMI Extender Kit (Sold Separately)

Transmitter Unit

Front View of Transmitter



1. HDMI® IN
2. Power Status LED
3. Link Status LED

Back View of Transmitter



1. Power Jack
2. HDMI® Out Link (RJ-45 Connector)

Receiver Unit

Front View of Receiver



1. HDMI® IN
2. Power Status LED
3. Link Status LED

Back View of Receiver

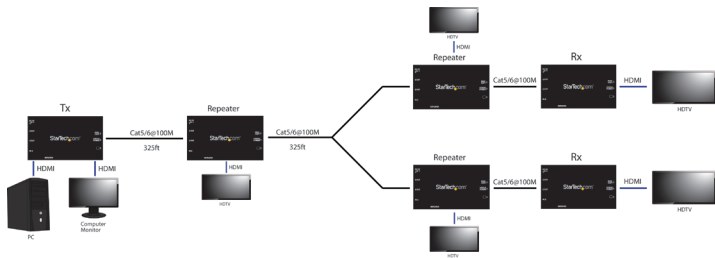


1. Power Jack
2. HDMI® Out Link (RJ-45 Connector)

Preparing Your Site

NOTE: This device will only work with the ST12MHDDC HDMI Extender kit. Please review site preparation steps from the ST12MHDDC manual prior to installing additional Repeaters.

1. Determine where the Repeater/Display will be installed in relation to the ST12MHDDC HDMI Extender kit (sold separately) and place/mount the display appropriately.
2. **(Optional)** If using additional repeater unit(s) (sold separately), determine where the remote display(s) will be located in relation to this repeater/display and place/mount the display(s) appropriately. Repeaters allow for an additional 330 ft. (100 meters) of Cat5/6 between each device. The Repeater(s) must be situated between the ST12MHDDC extender and the receiver, as the receiver portion does not have an RJ-45 out port to continue the chain.



NOTE: Ensure the Repeater Unit(s) are situated near an available AC electrical outlet. Make sure all devices are turned off before beginning installation.

Hardware Installation

NOTE: This device will only work with the ST12MHDDC HDMI® Extender kit. Please review the Hardware Installation steps from the ST12MHDDC manual prior to installing additional Repeaters.

1. Install RJ-45 terminated Cat5/6 Ethernet Cable

- a) Connect an RJ-45 terminated Cat5/6 Ethernet cable to the HDMI® Out Link (RJ-45 Connector) on the local Unit (Transmitter or Repeater).

NOTE: If you are using surface cabling, ensure you have enough Category 5/6 unshielded twisted pair (UTP) network cabling to connect the Transmitter Unit to the Remote Unit's (Repeater/Receiver) location, and that each end is terminated with a RJ45 connector. The cabling should not go through any networking equipment (i.e. router, switch).

OR

If you are using premises cabling, ensure that the Category 5/6 unshielded twisted pair (UTP) network cabling between the Host 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 Host Unit to their respective outlets. The cabling should not go through any networking equipment (i.e. router, switch).

- b) Connect the other end of the Cat5/6 cable run to the RJ45 connector on the Repeater unit.
- c) **(optional)** When adding multiple repeaters, a run of Cat 5/6 cable will be required from and to each device.

2. Install Repeater Unit(s)

- a) Position the Repeater Unit near the video display (i.e. television, projector) within 330 ft. (100 meters) from the level up device be it the initial transmitter or another repeater.
- b) Connect the video source to the HDMI® Out on the Repeater Unit using an HDMI® cable.
- c) Connect the Cat5/6 cable positioned in **Step 1** to the "HDMI® In Link (RJ-45 Connector)" on the Repeater. Connect the Repeater Unit power supply. The Power LED will light, and LINK LED will turn on after a successful connection between both units is established. This may take several seconds.

NOTE: These steps can be repeated at each level when adding additional Repeaters up to 30 levels. Each Repeater has two HDMI® out Links (RJ-45 Connectors) allowing for the same signal to go in 2 different directions at each level.

3. Install Receiver Unit

d) Position the Receiver Unit near the video display (i.e. television, projector) within 330 ft. (100 meters) from the level up device be it the initial transmitter or another repeater.

e) Connect the video source to the HDMI® out on the Receiver Unit using an HDMI® cable.

f) Connect the provided Receiver Unit power supply. The Power LED will light, and Link LED will turn on after a successful connection between both units is established. This may take several seconds.

NOTE: The ST12MHDDC receiver (sold separately) should only be used as the last device in the chain as it does not have an HDMI® out port (RJ-45 Connector).

4. Your source video image will now appear on the Repeater unit(s) attached video display.

Specifications

Input Connectors	1x RJ-45 Female	
Output Connectors	1x RJ-45 Female 1x HDMI (19 pin) Female	
Max Distance	100 m / 330 ft	
Maximum Digital Resolutions	1920x1200 @60Hz	
Supported Resolutions	1920 x 1200 1920 x 1080 1600 x 1200	
Wide Screen Supported	Yes	
Audio Specifications	7.1 Surround Sound	
Power Adapter	Input Voltage	100~240V
	Input Current	0.4 A A
	Output Voltage	5 ACV
	Output Current	2 A A
	Center Tip Polarity	Positive
	Plug Type	M

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 two 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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