

# HDMI over IP Extender Kit with USB and Serial

ST12MHDLANU



\*actual product may vary from photos

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For the latest information, technical specifications, and support for this product, please visit [www.startech.com/ST12MHDLANU](http://www.startech.com/ST12MHDLANU).

## 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

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by StarTech.com could void the user's authority to operate the equipment.

## Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe [B] est conforme à la norme NMB-003 du Canada.

CAN ICES-3 (B)/NMB-3(B)

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# Introduction

## Packaging contents

- 1 x HDMI over IP transmitter
- 1 x HDMI over IP receiver
- 2 x power adapters
- 2 x screws
- 1 x screwdriver
- 2 x Cat5 cables
- 2 x mounting brackets
- 1 x quick install guide

## System requirements

- HDMI enabled video source (e.g. a computer or Blu-ray™ player)
- HDMI enabled display device(s) (e.g. television, projector), one for each receiver
- HDMI cabling for your video source and each display
- Available AC electrical outlet for the transmitter and each receiver
- Network cabling for the extender and each receiver
- Standard USB A to USB B cable (optional for USB peripheral extension)
- Up to four USB peripheral devices (optional for USB peripheral extension)

# Product diagram

## Transmitter Unit



1. USB host port
2. Video input port (HDMI)
3. LAN port (RJ-45 connector)
4. Reset button
5. Power jack
6. Link and power LED
7. Function 2 button
8. Function 1 button
9. Dip rotary switch
10. Serial control (not active)
11. Serial extension (for extending RS232 signal)

# Receiver Unit



1. USB peripheral ports
2. Video output port (HDMI)
3. LAN port (RJ-45 connector)
4. Reset button
5. Power jack
6. Link and power LED
7. Function 2 button
8. Function 1 button
9. Dip rotary switch
10. Serial control (not active)
11. Serial extension (for extending RS232 signal)

**Note:** Serial 1 (control) ports are not active. To control the ST12MHDLANU please download our free mobile application. (see Page \*.)

(Additional receiver units sold separately, StarTech.com SKU: ST12MHDLANUR)

# Installation

## Preparing your site

**Note:** The ST12MHDLANU HDMI extender kit lets you extend your video and USB signals over a Gigabit LAN network – beyond the typical cable length restriction of 330 ft. (100m) of Gigabit network portals.

Refer to the manufacturer of the network equipment to determine the length restriction and to ensure the transmitter unit and receiver unit(s) are all within the restricted range of the nearest network portal.

Ensure the transmitter unit, and receiver unit(s) are all situated near AC electrical outlets.

1. Determine where the local video source (i.e. computer, Blu-ray player) will be located and set up the transmitter device near that location.
2. Determine where the remote display will be located and set up the receiver near that location.
3. (Optional) If using additional displays determine where they will be located and set the additional receiver unit(s) near that location.

## Hardware installation

Video wall or point to multi-point installation with a Gigabit LAN network

1. Install the transmitter unit
  - a) Connect a video source device, such as a computer or Blu-ray player, to the transmitter's video input port.
  - b) (Optional) If you're using the ST12MHDLANU extender kit to extend USB peripheral devices, use a standard USB A to USB B cable to connect the USB host port on the transmitter unit to a USB port on a video source device such as a computer or Blu-ray player.
  - c) Connect the transmitter's DC 9-12V power jack to an AC electrical outlet, using one of the included power adapters.
2. Install the receiver unit(s)
  - a) Connect a display to the receiver unit's video output port using an HDMI cable.
  - b) (Optional) If you are using the ST12MHDLANU extender kit to extend USB peripheral devices, connect up to four USB peripheral devices to the receiver unit's USB ports.
  - c) Connect the receiver unit's power jack to an AC electrical outlet, using one of the included power adapters.

d) (Optional) If you are using additional ST12MHDLANUR receivers (sold separately), repeat steps [a] through c)] for each additional receiver.

**Note:** The rotary dip switches on the transmitter and each receiver connected to the network must be set in the same position for the devices to communicate.

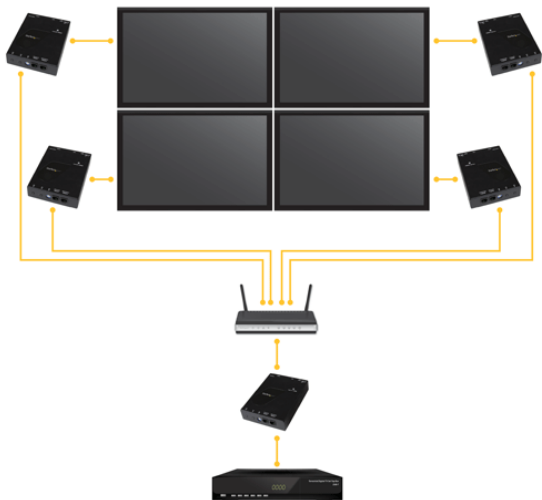
3. Connect the devices to a Gigabit LAN network

a) Connect an RJ-45 terminated Cat5e or Cat6 Ethernet cable to the LAN port on the transmitter unit, and to each of the receiver units.

b) Connect the other end of the Cat5e or Cat6 cable to a Gigabit LAN hub, router or switch.

**Note:** Your router must support IGMP snooping. Please refer to your network switch or router documentation to ensure IGMP snooping is supported and enabled.

4. Verify that the image from your video source appears on video display(s) attached to the receiver unit(s).



(Additional receiver units sold separately, StarTech.com SKU: ST12MHDLANUR)



## Software installation

The HDMI distribution kit features video control software that helps you manage your IP video distribution and video wall configuration. The software is available on iOS for your iPhone or iPad, Android™ for your smartphone or tablet, and for the Google Chrome™ browser.

To install the software:

1. Visit <http://www.StarTech.com/ST12MHDLANU>, using the device you intend to install software on.
2. Under the overview tab, select the link for the store that corresponds with your device.



3. Select the option to download and install the software from the store page.
4. Open the software, to verify that it has installed correctly.

**Please note:** A full production manual with details regarding operation of the application is available at: <http://www.startech.com/ST12MHDLANU>

# 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](http://www.startech.com/support) and access our comprehensive selection of online tools, documentation, and downloads.

For the latest drivers/software, please visit [www.startech.com/downloads](http://www.startech.com/downloads)

# Warranty information

This product is backed by a two-year warranty.

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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