Quick install guide

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HDMI® over CAT6 extender with 4-port USB hub - up to 165 ft (50m)

ST121USBHD

Product overview

Front view

Transmitter Unit

Receiver Unit

USB hub ports

HDMI input

USB host connection (Mini-USB)

HDMI output

USB hub ports

Rear view

Transmitter Unit

Receiver Unit

link out A (RJ-45 Connector)

link out A (RJ-45 Connector)

power source (Mini-USB)

3. link out B (RJ-45 Connector)

power source (Mini-USB)

3. link out B (RJ-45 Connector)

*actual product may vary from photos

Packaging contents

- 1 x HDMI over CAT6 transmitter
- 1 x HDMI over CAT6 receiver
- 2 x Ethernet cables
- 2 x USB to Mini-USB cables
- 1 x universal power adapter (NA/EU/UK/AU)
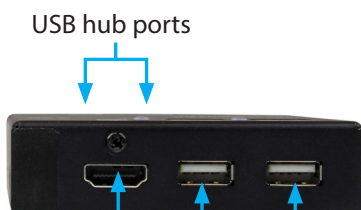- 1 x mounting kit
- 1 x quick install guide

System requirements

- 1 x HDMI® enabled video source device with cabling (i.e. computer, Blu-ray Player)
- 1 x HDMI enabled display with cabling (i.e. television, projector)
- 2 x available USB power source or AC electrical outlet at the location for the transmitter and receiver
- (Optional) 4x USB peripheral devices

Preparing your site

1. Determine where the local video source (i.e. computer, Blu-ray Player) will be located and set up the device.
2. Determine where the remote display will be located and place or mount the display appropriately.

Notes: Please ensure that the transmitter and receiver units are situated near an available AC electrical outlet or a USB power source. Make sure all devices are turned off before beginning installation.

Hardware Installation

1. **Install Transmitter Unit**
   a) Position the transmitter unit near the video source (i.e. Computer, Blu-ray Player).
   b) Connect an HDMI cable from the video source device (i.e. computer, Blu-ray Player) to the HDMI in port on the transmitter Unit.
   c) *(Optional)* If you've chosen to connect USB peripheral devices using the USB hub, please connect a USB to Mini-USB cable (not included) from the USB host connection port on the transmitter to an available USB port on your source device (i.e. computer).

   Note: All USB ports on this extender are USB 2.0

   Note: While two USB to Mini-USB cables are included, these are required to provide power to the extender and receiver. A third cable that is not included is required for console support.

For the latest information, technical specifications, and support for this product, please visit www.startech.com/ST121USBHD.

Manual Revision: 01/08/2016

d) Connect a power source to the transmitter unit, by connecting one of the included USB to Mini-USB cables from the power source port on the transmitter unit to a USB power source. If a USB power source is not available, you can connect the included power adapter to an electrical outlet.

2. **Install RJ45 terminated Cat5e or CAT6 Ethernet Cables**
a) Connect an RJ45 terminated Cat5e/6 Ethernet cable (not included) to the link out A (RJ-45 connector) on the transmitter unit.
b) Connect another RJ45 terminated Cat5e/6 Ethernet cable (not included) to the link out B (RJ-45 connector) on the transmitter unit.

Note: If you are using surface cabling, ensure you have enough Ethernet cabling to connect the Host Unit to the Remote Unit's location, and that each end is terminated with an 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 Ethent 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).

c) Connect the other end of the Ethernet cable (from link out A) to the link in A (RJ-45 connector) on the receiver unit.
d) Connect the other end of the Ethernet cable (from link out B) to the link in B (RJ-45 connector) on the receiver unit.

Note: The performance of this extender will vary depending on the length and type of your cabling. Please review the chart below to determine the best solution for your setup.

Cable type	Distance	Max. resolution
Shielded CAT6	50m (maximum)	1080i
	40m	1080p
Unshielded CAT6	30m (maximum)	1080p
Shielded and unshielded CAT5e	15m (maximum)	1080p

3. **Install Receiver Unit**
a) Position the receiver unit near the video display (i.e. television, projector).
b) Connect the video source to the HDMI out port on the receiver unit using an HDMI cable (not included).
c) (Optional) If you've chosen to connect USB peripheral devices through the extender, connect each of your peripheral devices to one of the available USB hub ports on the receiver unit.
d) Connect a power source to the receiver unit, by connecting one of the included USB to Mini-USB cables from the power source port on the transmitter unit to a USB power source. If a USB power source is not available, you can connect the included power adapter to an electrical outlet.

4. **Your source video image will now appear on the remote video display, and your USB peripheral devices can be operated from the remote location.**