

# 4K HDMI Extender with Compact Transmitter - HDBaseT - UHD 4K

Product ID: ST121HDBTDK



This 4K HDMI extender uses HDBaseT to transmit your HDMI A/V signal to a remote location up to 70 m (230 ft.) away.

### **Easy and Discreet Installation**

The transmitter in this HDMI HDBaseT extender kit features a small footprint and built-in HDMI cable that connects directly to your source for reduced clutter. It's powered from a USB port on your source device, which makes it easier to install in areas where power outlets may be limited. Mounting hardware is included for the receiver for a discreet, professional installation.





### Get 4K Video at 130 ft. (40 m)

This HDMI over CAT6 extender maintains your UHD 4K picture quality, even at 130 feet away from your video source. Because the extender is backward compatible with 1080p and lower resolutions at 230 feet away, you can comfortably use this extender to make any video source look great. The extender also supports 7.1 audio to ensure all audio channels are captured.

### **Seamless Integration with Your Existing Infrastructure**

The kit extends HDMI over a single cable, unlike some HDMI extenders that require two cables, reducing potential failure points and lowering your cabling costs. Ideal for digital signage, the HDMI over CAT6 extender uses standard CAT5e, CAT6 or CAT7 cables to extend HDMI video over the Ethernet infrastructure that's already in your building.

The ST121HDBTDK is backed by a StarTech.com 2-year warranty and free lifetime technical support.





# Certifications, Reports and Compatibility











### **Applications**

- Transmit an HDBaseT signal to a boardroom or classroom projector
- Distribute digital signage in large buildings like shopping centers, stadiums, schools, and hospitals
- Power your transmitter using the USB port on your video source

#### **Features**

- Simple and versatile installation with a compact, USB-powered transmitter that features a built-in HDMI cable
- Astonishing picture quality with support for UHD resolutions up to 4K
- Easy integration with existing CAT5/CAT6/CAT7 infrastructure
- Mounting hardware included
- 7.1 audio support



## **Data Sheet**

Cabling Cat 5e UTP or better Daisy-Chain No Ports 1 Rack-Mountable Yes  Performance Audio Specifications 7.1 Surround Sound Max Distance 70 m / 230 ft Maximum Cable Length 0.2 ft [0.1 m] Maximum Digital Resolutions 4096 x 2160 (4K) @ 30 Hz Wide Screen Supported Yes  Connector(s) Local Unit Connectors 1 · HDMI (19 pin) Latching Female Input 1 · R3 · 45 Female Output Remote Unit Connectors 1 · HDMI (19 pin) Female Output 1 · R3 · 45 Female Input  Indicators LED Indicators 1 · Status LED (receiver)  Power Center Tip Polarity Positive Input Current 0.6 A Input Voltage 100 ~ 240 AC Output Current 1.5 A Output Voltage 12 DC Plug Type M Power Consumption (In Watts) 18 Power Source AC Adapter Included  Environmental Humidity 0% - 80 % RH (non-condensing) Operating Temperature 0°C to 40°C (32°F to 140°F) Physical Product Height 1 in [25 mm]		Warranty	2 Years
Daisy-Chain Ports Rack-Mountable Yes  Performance Audio Specifications Max Distance Maximum Cable Length Maximum Digital Resolutions Wide Screen Supported Yes  Connector(s) Local Unit Connectors Remote Unit Connectors 1 - HDMI (19 pin) Latching Female Input 1 - RJ-45 Female Output 1 - RJ-45 Female Output 1 - RJ-45 Female Input 1 - RJ-45 Femal	Hardware	Audio	Yes
Ports		Cabling	Cat 5e UTP or better
Rack-Mountable Performance Audio Specifications Max Distance Maximum Cable Length Maximum Digital Resolutions Wide Screen Supported Performance Connector(s)  Connector(s)  Local Unit Connectors I - HDMI (19 pin) Latching Female Input I - RJ-45 Female Output Remote Unit Connectors I - HDMI (19 pin) Female Output I - RJ-45 Female Input Indicators LED Indicators I - Status LED (receiver)  Power Center Tip Polarity Input Current Input Voltage Output Current O.6 A Input Voltage 100 ~ 240 AC Output Current I.5 A Output Voltage Plug Type M Power Consumption (In Watts) Remote Unit Watts) Benever Source AC Adapter Included  Environmental Humidity Operating Temperature O°C to 40°C (32°F to 104°F) Storage Temperature Ing 25 mm]  Physical Product Height I in [25 mm]		Daisy-Chain	No
Performance  Audio Specifications  Max Distance  Maximum Cable Length  Maximum Digital Resolutions  Wide Screen Supported  Connector(s)  Local Unit Connectors  Remote Unit Connectors  I - HDMI (19 pin) Latching Female Input  I - RJ-45 Female Output  Remote Unit Connectors  I - HDMI (19 pin) Female Output  I - RJ-45 Female Input  I - RJ-45 Female Input  Center Tip Polarity  Input Current  Input Voltage  Output Current  Input Voltage  Output Voltage  Power Consumption (In Watts)  Power Source  AC Adapter Included  Environmental  Humidity  Operating Temperature  O°C to 40°C (32°F to 104°F)  Storage Temperature  -10°C to 60°C (14°F to 140°F)  Physical		Ports	1
Max Distance  Maximum Cable Length  Maximum Digital Resolutions  Wide Screen Supported  Pess  Connector(s)  Local Unit Connectors  Local Unit Connectors  1 - HDMI (19 pin) Latching Female Input  1 - RJ-45 Female Output  Remote Unit Connectors  1 - HDMI (19 pin) Female Output  1 - RJ-45 Female Input  Indicators  LED Indicators  1 - Status LED (receiver)  Power  Center Tip Polarity  Input Current  0.6 A  Input Voltage  100 ~ 240 AC  Output Current  1.5 A  Output Voltage  Plug Type  M  Power Consumption (In Watts)  Power Source  AC Adapter Included  Environmental  Humidity  Operating Temperature  O°C to 40°C (32°F to 104°F)  Storage Temperature  Physical		Rack-Mountable	Yes
Maximum Cable Length Maximum Digital Resolutions Wide Screen Supported Yes  Connector(s) Local Unit Connectors Remote Unit Connectors 1 - HDMI (19 pin) Latching Female Input 1 - RJ-45 Female Output 1 - RJ-45 Female Input 1 - RJ-45 Female Input 1 - RJ-45 Female Input 1 - RJ-45 Female Output 1 - RJ-45 Female Input  Indicators LED Indicators 1 - Status LED (receiver)  Power  Center Tip Polarity Positive Input Current 0.6 A Input Voltage 100 ~ 240 AC Output Current 1.5 A Output Voltage 12 DC Plug Type M Power Consumption (In Watts) 18 Power Source AC Adapter Included  Environmental Humidity Operating Temperature O°C to 40°C (32°F to 104°F) Storage Temperature 1.0°C to 60°C (14°F to 140°F)  Physical	Performance	Audio Specifications	7.1 Surround Sound
Maximum Digital Resolutions Wide Screen Supported Yes  Connector(s)  Local Unit Connectors  Remote Unit Connectors  1 - HDMI (19 pin) Latching Female Input 1 - RJ-45 Female Output 1 - RJ-45 Female Input 1 - RJ-45 Female Input  Indicators  LED Indicators  1 - Status LED (receiver)  Power  Center Tip Polarity Input Current 0.6 A Input Voltage 100 ~ 240 AC Output Current 0.5 A Output Voltage 12 DC Plug Type M Power Consumption (In Watts) Power Source  AC Adapter Included  Environmental  Humidity Operating Temperature O°C to 40°C (32°F to 104°F) Storage Temperature  Physical		Max Distance	70 m / 230 ft
Connector(s) Local Unit Connectors I - HDMI (19 pin) Latching Female Input I - RJ-45 Female Output Remote Unit Connectors I - HDMI (19 pin) Female Output I - RJ-45 Female Input I - RJ-45 Female Input  Indicators LED Indicators I - Status LED (receiver)  Power Center Tip Polarity Input Current Input Voltage Input Voltage Output Current Output Voltage 12 DC Plug Type M Power Consumption (In Watts) Power Source AC Adapter Included  Environmental Humidity Operating Temperature O°C to 40°C (32°F to 104°F) Storage Temperature Physical Product Height  1 - HDMI (19 pin) Latching Female Input I - HDMI (19 pin) Latching Female Input I - RJ-45 Female Output I - RJ-45 Female Output I - RJ-45 Female Output I - RJ-45 Female Input I - RJ-45 Female Output I - RJ-45 Female Input I - RJ-45 Female Output I - RJ-45 Female Output I - RJ-45 Female Input I - RJ-45 Female Output I - RJ-45 Female Input I - RJ-45 Female Output I -		Maximum Cable Length	0.2 ft [0.1 m]
Connector(s)  Local Unit Connectors  1 - HDMI (19 pin) Latching Female Input  1 - RJ-45 Female Output  Remote Unit Connectors  1 - HDMI (19 pin) Female Output  1 - RJ-45 Female Input  Indicators  LED Indicators  1 - Status LED (receiver)  Power  Center Tip Polarity Positive Input Current 0.6 A Input Voltage 100 ~ 240 AC Output Current 1.5 A Output Voltage 12 DC Plug Type M Power Consumption (In Watts) Power Source  AC Adapter Included  Environmental  Humidity 0% - 80 % RH (non-condensing) Operating Temperature 0°C to 40°C (32°F to 104°F) Storage Temperature -10°C to 60°C (14°F to 140°F)  Physical		Maximum Digital Resolutions	4096 x 2160 (4K) @ 30 Hz
Remote Unit Connectors  1 - RJ-45 Female Output  1 - RJ-45 Female Output  1 - RJ-45 Female Input  Indicators  LED Indicators  1 - Status LED (receiver)  Power  Center Tip Polarity		Wide Screen Supported	Yes
Remote Unit Connectors  1 - HDMI (19 pin) Female Output  1 - RJ-45 Female Input  Indicators  LED Indicators  1 - Status LED (receiver)  Power  Center Tip Polarity Positive Input Current 0.6 A Input Voltage 100 ~ 240 AC Output Current 1.5 A Output Voltage 12 DC Plug Type M Power Consumption (In Watts) Power Source  AC Adapter Included  Environmental  Humidity O% - 80 % RH (non-condensing) Operating Temperature O°C to 40°C (32°F to 104°F) Storage Temperature -10°C to 60°C (14°F to 140°F)  Physical	Connector(s)	Local Unit Connectors	1 - HDMI (19 pin) Latching Female Input
Indicators  LED Indicators  1 - Status LED (receiver)  Power  Center Tip Polarity Input Current O.6 A Input Voltage Output Current Output Voltage 12 DC Plug Type M Power Consumption (In Watts) Power Source  Environmental Humidity Operating Temperature O"C to 40°C (32°F to 104°F) Storage Temperature  -10°C to 60°C (14°F to 140°F)  Physical  Product Height  1 - RJ-45 Female Input  1 - RJ-45 Female Input  A C Adapter Include  A C Adapter Included  O"C to 40°C (32°F to 104°F)  -10°C to 60°C (14°F to 140°F)			1 - RJ-45 Female Output
Indicators  LED Indicators  1 - Status LED (receiver)  Power  Center Tip Polarity		Remote Unit Connectors	1 - HDMI (19 pin) Female Output
Power    Center Tip Polarity   Positive     Input Current   0.6 A     Input Voltage   100 ~ 240 AC     Output Current   1.5 A     Output Voltage   12 DC     Plug Type   M     Power Consumption (In Watts)   18     Power Source   AC Adapter Included     Environmental   Humidity   0% - 80 % RH (non-condensing)     Operating Temperature   0°C to 40°C (32°F to 104°F)     Storage Temperature   -10°C to 60°C (14°F to 140°F)     Physical   Product Height   1 in [25 mm]			1 - RJ-45 Female Input
Input Current Input Voltage 100 ~ 240 AC Output Current 1.5 A Output Voltage 12 DC Plug Type M Power Consumption (In Watts) Power Source AC Adapter Included  Environmental Humidity 0% - 80 % RH (non-condensing) Operating Temperature O°C to 40°C (32°F to 104°F) Storage Temperature -10°C to 60°C (14°F to 140°F)  Physical Product Height 1 in [25 mm]	Indicators	LED Indicators	1 - Status LED (receiver)
Input Voltage 100 ~ 240 AC  Output Current 1.5 A  Output Voltage 12 DC  Plug Type M  Power Consumption (In Watts) 18  Power Source AC Adapter Included  Environmental Humidity 0% - 80 % RH (non-condensing)  Operating Temperature 0°C to 40°C (32°F to 104°F)  Storage Temperature -10°C to 60°C (14°F to 140°F)  Physical Product Height 1 in [25 mm]	Power	Center Tip Polarity	Positive
Output Current Output Voltage 12 DC Plug Type M Power Consumption (In Watts) Power Source AC Adapter Included  Environmental Humidity O% - 80 % RH (non-condensing) Operating Temperature O°C to 40°C (32°F to 104°F) Storage Temperature -10°C to 60°C (14°F to 140°F)  Physical  Product Height 1 in [25 mm]		Input Current	0.6 A
Output Voltage Plug Type M Power Consumption (In Watts) Power Source AC Adapter Included  Humidity O% - 80 % RH (non-condensing) Operating Temperature O°C to 40°C (32°F to 104°F) Storage Temperature -10°C to 60°C (14°F to 140°F)  Physical Product Height 1 in [25 mm]		Input Voltage	100 ~ 240 AC
Plug Type M Power Consumption (In Watts) 18 Power Source AC Adapter Included  Environmental Humidity 0% - 80 % RH (non-condensing) Operating Temperature 0°C to 40°C (32°F to 104°F) Storage Temperature -10°C to 60°C (14°F to 140°F)  Physical Product Height 1 in [25 mm]		Output Current	1.5 A
Power Consumption (In Watts)  Power Source  AC Adapter Included  Humidity  O% - 80 % RH (non-condensing)  Operating Temperature  O°C to 40°C (32°F to 104°F)  Storage Temperature  -10°C to 60°C (14°F to 140°F)  Product Height  1 in [25 mm]		Output Voltage	12 DC
Power Source AC Adapter Included  Humidity 0% - 80 % RH (non-condensing) Operating Temperature 0°C to 40°C (32°F to 104°F) Storage Temperature -10°C to 60°C (14°F to 140°F)  Physical Product Height 1 in [25 mm]		Plug Type	М
Humidity 0% - 80 % RH (non-condensing) Operating Temperature 0°C to 40°C (32°F to 104°F) Storage Temperature -10°C to 60°C (14°F to 140°F)  Physical Product Height 1 in [25 mm]		Power Consumption (In Watts)	18
Operating Temperature  Storage Temperature  O°C to 40°C (32°F to 104°F)  -10°C to 60°C (14°F to 140°F)  Product Height  1 in [25 mm]		Power Source	AC Adapter Included
Storage Temperature -10°C to 60°C (14°F to 140°F)  Physical Product Height 1 in [25 mm]	Environmental	Humidity	0% - 80 % RH (non-condensing)
Physical Product Height 1 in [25 mm]		Operating Temperature	0°C to 40°C (32°F to 104°F)
		Storage Temperature	-10°C to 60°C (14°F to 140°F)
- Character issues	Physical Characteristics	Product Height	1 in [25 mm]
Product Length 3.1 in [80 mm]		Product Length	3.1 in [80 mm]
Product Weight 8.9 oz [252 g]		Product Weight	8.9 oz [252 g]
Product Width 2.7 in [68 mm]		Product Width	2.7 in [68 mm]



## **Data Sheet**

Packaging Information	Shipping (Package) Weight	3.5 lb [1.6 kg]
What's in the Box	Included in Package	1 - HDBaseT transmitter
		1 - HDBaseT receiver
		1 - USB power cable (transmitter) (1310 mm)
		1 - universal power adapter (receiver) (NA, EU, UK, ANZ)
		1 - mounting kit (receiver)
		1 - screw kit for mounting
		1 - footpad set (receiver)
		1 - quick start guide
	AV Input	HDMI
	AV Output	HDMI
	Connector A	1 - HDMI (19 pin) Female Input
		1 - RJ-45 Female Output
	Connector B	1 - HDMI (19 pin) Female Output
		1 - RJ-45 Female Input

Product appearance and specifications are subject to change without notice.