

## HDMI over CAT5e Extender with IR and Serial - HDBaseT Extender - 4K

**Product ID:** ST121HDBTL



This HDBaseT extender kit can transmit your 4K HDMI signal up to 115 ft. (35 m) over a single CAT5e or CAT6 cable. At lower resolutions up to 1080p, the extender kit can transmit your signal up to 230 ft. (70 m).

The extender offers a complete end-to-end video and control solution, using HDBaseT technology to extend not just HDMI, but also DC power, IR and serial control over a single CAT5 cable. By extending so much over just one CAT5e or CAT6 cable, HDBaseT is the clear choice of every integrator and system designer.

The added benefit of power over cable means that you'll only need one power source at one side of your extension - great for extending video and control to areas where power outlets may be limited, such as industrial sites.

Serial and IR extension optimizes operation by enabling you to control the video source or display from both the local and remote location.

This HDBaseT extender has been certified via the HDBaseT Certification Program. This certification ensures the extender is compliant with HDBaseT technical standards, and maximizes reliability with your HDMI display and video source, by ensuring compliance with their established HDMI ecosystem.

With the A/V industry adopting 4K as the new high-resolution video standard, long-range video distribution can be a challenge over standard HDMI cables that become susceptible to signal degradation at 30 feet. This HDBaseT extender can maintain your Ultra HD 4K picture quality - four times the resolution of high-definition 1080p - even at 330 feet away from your video source. Plus, because the extender supports high-definition 1080p and lower resolutions, you can comfortably use this extender to make any video source look great, while future-proofing your setup for 4K implementation.

HDBaseT technology offers a single-cable installation, so you can integrate this solution seamlessly using your existing CAT5e or CAT6 infrastructure. Both the transmitter and receiver included with this HDBaseT extender kit are mountable, so you can keep the equipment out of sight in an equipment rack, or on a wall. This helps to reduce clutter and ensure a professional installation that doesn't draw your viewers' attention away from the content on your display. It's perfect for customer-facing displays in bars, restaurants or hotel lobbies.

HDBaseT is a standardized, zero-latency video technology that's revolutionizing HDMI distribution. HDBaseT uses an advanced method of modulation that enables you to distribute uncompressed HDMI audio and video, along with

additional signals, over a single Ethernet cable.

Offering greater versatility than traditional HDMI extenders, and longer distances than HDMI cables alone, HDBaseT is the clear choice for every integrator and system designer. It can do so much, with just a single cable.

The ST121HDBTL is TAA compliant and backed by a 2-year StarTech.com warranty with free lifetime technical support.

Note: When using Power over Cable (PoC) to power the transmitter or receiver, it is not recommended to pair the StarTech.com transmitter or receiver with any other HDBaseT hardware. Power over Cable should only be used with the transmitter and receiver that are provided with this extender kit.

## Certifications, Reports and Compatibility



## Applications

- Extend video where power outlets are limited with HDBaseT offering power over cable that powers both the transmitter and receiver using a single power source at either side of the connection
- Place the display in a convenient viewing area, while the system equipment is placed elsewhere in a clean and secure environment
- Optimize placement of your demo stations at tradeshow and in auditoriums

## Features

- **HDMI OVER CAT5e/CAT6:** Extend an Ultra HD 4K 30Hz HDMI video signal and 7.1CH audio up to 115' (35m) over Cat5e/6 Ethernet cable; Extend 1080p HDMI up to 230' (70m); YUV video encoding; RS-232 & IR extension/control; 4:4:4 chroma subsampling, HDCP 1.4
- **SINGLE POWER ADAPTER FLEXIBILITY:** For added installation flexibility, the power adapter can be placed at either the remote or local side for areas where power outlets may be limited; Power is delivered to transmitter/receiver over the Ethernet cable (POC)
- **HDBASET CERTIFIED:** HDMI extender is tested and certified by the HDBaseT Alliance to help ensure quality and compatibility for Digital Signage & AV installers/integrators for commercial and/or professional environments
- **INCLUDED ACCESORIES:** Transmitter & receiver with point to point direct connection (no network equipment required); Cat5e cable for testing; IR Blaster and IR Receiver w/ mounting hardware (IR remote not incl)
- **EASY INSTALLATION:** No IP configuration or drivers required for the powered HDMI extender kit (transmitter & receiver); An HDBaseT repeater (ST121HDBTRP) is available for scalable solutions over longer distances

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## Hardware

Warranty	2 Years
Ports	1
Cabling	Cat 5e UTP or better
Audio	Yes
Daisy-Chain	Yes

## Performance

Maximum Cable Length	229.6 ft [70 m]
Max Distance	70 m / 230 ft
Maximum Digital Resolutions	4096 x 2160 (4K) @ 30 Hz (35 meters) 1920 x 1080 (1080p) @ 60 Hz (70 meters)
Supported Resolutions	3840x2160 (4K) 2560x1600 1920x1200 1920x1080 (1080p) 1280x720 (720p)
Wide Screen Supported	Yes
Audio Specifications	7.1 Surround Sound

## Connector(s)

Local Unit Connectors	HDMI (19 pin)
	DB 9-pin Serial
	RJ-45
	3.5 mm Mini-Jack (3 Position)
Remote Unit Connectors	HDMI (19 pin)
	DB 9-pin Serial
	RJ-45
	3.5 mm Mini-Jack (3 Position)

## Special Notes / Requirements

Note	If you want to add more displays, you can daisy chain this product with the HDBaseT repeater ST121HDBTRP.
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## Indicators

LED Indicators	status LED (transmitter)
	status LED (receiver)

## Power

Power Source	AC Adapter Included
Input Voltage	100 - 240 AC
Input Current	0.6 A
Output Voltage	12V DC
Output Current	1.5 A
Center Tip Polarity	Positive
Plug Type	M
Power Consumption (In Watts)	18

## Environmental

Operating Temperature	0C to 40C (32F to 104F)
Storage Temperature	-10C to 60C (14F to 140F)
Humidity	0% - 80 %

## Physical Characteristics

Color	Black
Material	Steel
Product Length	3.6 in [92 mm]
Product Width	2.6 in [66 mm]
Product Height	1.1 in [2.7 cm]
Weight of Product	16.0 oz [452 g]

## Packaging Information

Package Length	11.1 in [28.1 cm]
Package Width	7.6 in [19.4 cm]
Package Height	2.8 in [70 mm]
Shipping (Package) Weight	2.4 lb [1.1 kg]

## What's in the Box

Included in Package	HDBaseT transmitter
	HDBaseT receiver
	universal power adapter (NA, EU, UK, ANZ)
	IR receiver
	IR blaster
	mounting brackets
	foot pads

***\*Product appearance and specifications are subject to change without notice.***

