4K HDMI over IP Receiver for ST12MHDLAN4K

**Product ID:** ST12MHDLAN4R



This 4K HDMI over IP receiver works with the 4K HDMI over IP Extender Kit (sold separately) and lets you extend a 4K HDMI signal, as well as RS-232 peripheral device connections, over your network. You can use additional receivers (sold separately) to distribute the HDMI signal to multiple locations, each with 4K support, and combine your remote displays to create a video wall.

The IP receiver also features RS-232 extension which enables you to add a remote serial operated device at your video source or each remote display. This HDMI over IP extender is the perfect solution for combining a serial-operated touchscreen with your display or video wall, to create interactive digital signage presentations.

You can add multiple receivers to your HDMI over IP extender kit to create a point-to-multipoint setup or video wall. In these configurations, you can also add additional sources (transmitters) with even more displays (receivers) over your Gigabit Ethernet switch with IGMP. For further scalability, you can combine up to 16 total (transmitters) and as many receivers (displays) as your network bandwidth can support.

The extender also features a separate 3.5 mm audio source that enables you to switch between the native HDMI audio and a separate 3.5 mm audio source, so you can distribute a single audio source to multiple remote locations over IP  (also requires a Gigabit Ethernet switch with IGMP).

This HDMI over IP kit uses H.264 compression to deliver astonishing 4K UHD video to your remote 4K displays over an IP connection. With support for 4K, you can achieve an output resolution of up to 3840 x 2160p at 30Hz, which enables you to extend a 4K video source to multiple remote locations -- perfect for digital signage or entertainment video distribution throughout large buildings such as schools, hospitals, shopping centers or areas.

The extender is backward compatible with lower resolutions such as 1080p or 720p, making it great for lower resolution applications while future-proofing your infrastructure for 4K implementation.

This HDMI distribution kit features an easy-to-use video control software app that helps you manage your IP video distribution. The app is simple to set up, with automatic hardware detection, and it lets you switch video sources for each remote display. You can also create and manage a video wall, for an impressive digital signage presentation that's sure to catch your audience's attention.

The software is available on iOS for your iPhone or iPad, and Android for your smartphone or tablet.

The HDMI over IP extender kit includes optional slot shelf mounting hardware for a tidy installation. Plus, because the extender uses standard non-proprietary CAT5e or CAT6 Ethernet cable with RJ-45 connectors, it eliminates both the expense and hassle of running specialized cables.

The extender also features an EDID copy function, which ensures native resolution and maximum compatibility with your display or projector for a convenient plug-and-play installation.

Download the StarTech.com Video Control software to manage your IP video distribution.

The ST12MHDLAN4R is TAA compliant and backed by a StarTech.com 2-year warranty with free lifetime technical support.

## Certifications, Reports and Compatibility

## Applications

• Distribute a separate 3.5 mm audio source and switch between that source and the native HDMI audio source

• Build a multi-display video wall to present entertainment to your patrons with an impressive display at a restaurant or shopping center

• Extend HDMI and RS-232 serial to create an interactive digital signage presentation

• Display multiple communication boards showing dynamic data such as times and dates on digital charts in airports, train stations, bus stations or hospitals, that can be updated at any time

• Present your social media feeds on multiple screens in a large viewing area

## Features

• Versatile video distribution with support for large multi-display presentations, video walls, video switching and point-to-point extension

• Astonishing picture quality over IP with support for 4K at 30Hz resolution

• Free mobile app makes it easy to manage switching video wall control (iOS / Android)

• Tidy, professional installation using the included mounting hardware

• Connect using a Gigabit LAN network

• Easy point-to-point or point-to-multipoint setup

• Extend HDMI using existing network infrastructure

**Hardware**

| | |
|---|---|
| Warranty | 2 Years |
| AV Input | HDMI |
| Ports | 1 |
| Cabling | Cat 5e UTP or better |
| Audio | Yes |
| Rack-Mountable | No |
| Daisy-Chain | Yes |

**Performance**

| | |
|---|---|
| Max Distance | 100 m / 330 ft |
| Maximum Digital Resolutions | 4K @ 30Hz |
| Supported Resolutions | 3840x2160 (4K) @ 30Hz |
| | 2560x1600 |
| | 1920x1200 @ 60Hz |
| | 1920x1080 (1080p) |
| | 1280x720 (720p) |
| Wide Screen Supported | Yes |
| Audio Specifications | Stereo Sound |

**Connector(s)**

| | |
|---|---|
| Connector A | 1 - HDMI (19 pin) |
| | 1 - RJ-45 |
| | 2 - RJ-11 |
| | 4 - 3.5 mm Mini-Jack (3 Position) |

**Special Notes / Requirements**

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|---|---|
| Note | Bandwidth requirement at 4k 30hz resolution is between 480Mbps and 850Mbps (per transmitter and receiver pair) |

Latency at 4K 30hz resolution is 200ms between transmitter and receiver

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## Power

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

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## Environmental

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

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## Physical Characteristics

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|---|---|---|
| | Color | Black |
| | Material | Aluminum |
| | Product Length | 5.2 in [13.1 cm] |
| | Product Width | 4.6 in [11.7 cm] |
| | Product Height | 1.2 in [3 cm] |
| | Weight of Product | 21.0 oz [594 g] |

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## Packaging Information

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|---|---|---|
| | Package Quantity | 1 |
| | Package Length | 11.6 in [29.5 cm] |

| | | |
|---|---|---|
| Package Width | 8.3 in [21 cm] | |
| Package Height | 2.6 in [65 mm] | |
| Shipping (Package) Weight | 2.7 lb [1.2 kg] | |

**What's in the Box**

| | | |
|---|---|---|
| Included in Package | 1 - HDMI over IP receiver | |
| | 1 - universal power adapter (NA, EU, UK, ANZ) | |
| | 1 - mounting bracket | |
| | 1 - CAT5 cable | |
| | 1 - RJ11 to RS232 adapter | |
| | 1 - RJ11 cable | |
| | 1 - plastic screwdriver | |
| | 1 - quick-start guide | |

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