

4K HDMI over IP Extender Kit with Video Control App, Scalable AV over IP with support for AVoIP Video Wall

Product ID: ST12MHDLAN4K



Distribute 4K 30Hz HDMI signals across your existing IP network with this high-performance AV over IP extender kit. Designed for IT professionals, system integrators, and digital signage specialists, this solution delivers unmatched flexibility for scaling video distribution without the limitations of traditional HDMI splitters or fixed extenders.

Easily expand your A/V distribution setup and build dynamic video walls using the ST12MHDLAN4K extender kit and additional receivers (ST12MHDLAN4R , sold separately):

- One-to-Many: Connect up to 16 receivers to a single transmitter, ideal for broadcasting HDMI over IP to multiple displays
- Many-to-Many: Integrate up to 16 ST12MHDLAN4K extender kits and additional ST12MHDLAN4R receivers with a maximum of 16 transmitters and 256 receivers.

For smaller-scale deployments, the extender kit can be used in a simple point-to-point setup over Cat5e/6 cabling up to 330 ft (100 m), with support for extending two independent 3.5 mm audio sources to remote speaker systems.

The included iOS/Android Video Control App empowers administrators to name sources and displays, switch inputs, and configure video walls, all from a mobile device. With RS232 passthrough, TVs or serial-controlled devices can be managed remotely through the same network.

Perfect for digital signage in retail, hospitality, and corporate settings, as well as command centers or other mission-critical environments. The kit includes mounting hardware for clean shelf or rack installations and supports both static and dynamic signage needs.

Certifications, Reports and Compatibility



Applications

- Distribute 4K video content over your existing network to multiple displays
- Deploy dynamic digital signage or critical control room displays with reliable, flexible AV over IP performance
- Scale your AVoIP deployments by adding transmitters and receivers
- Seamlessly integrate legacy and serial-controlled devices into modern AVoIP networks, maintaining centralized control

Features

- **AV over IP HDMI Extender:** Distribute 4K 30Hz HDMI signals over existing IP network infrastructure using AVoIP; Ideal for IT teams and system integrators building scalable, cost-effective and future-ready A/V systems without splitters or fixed extenders
- **Video Control App and RS232:** Control video routing in a centralized way with the free iOS/Android app; Name sources/displays, set up video walls, and use RS232 passthrough to manage TVs or serial devices remotely
- **Scalable HDMI over IP:** Easily expand your A/V network with one-to-many or many-to-many video wall setups by simply adding transmitters and receivers; Requires adequate network bandwidth and multicast / jumbo frames support
- **Flexible Deployment:** Suitable for digital signage in retail, hospitality, corporate or any other environment, as well as mission-critical video wall setups in command and control rooms; Mounting brackets included
- **The IT Pro's Choice:** Backed by decades of connectivity expertise from legacy VGA to modern USB4 and AVoIP solutions; TAA compliant for government and enterprise procurement; Work with a single trusted partner for all your A/V connectivity needs

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	100m [328ft]
	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)
	Connector B	1 - HDMI (19 pin) 1 - RJ-45 2 - RJ-11 4 - 3.5 mm Mini-Jack (3 Position)
Special Notes / Requirements		
	Note	The ST12MHDLAN4K will only work with ST12MHDLAN4R receivers Your router must support IGMP snooping. Please refer to your network switch or router documentation to ensure IGMP snooping is supported and enabled 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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Indicators

LED Indicators	1 - Link OK / POWER - Transmitter
	1 - Reset - Transmitter
	1 - Link OK / POWER - Receiver
	1 - Reset - Receiver

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

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	Aluminum

Product Length	5.1 in [13.0 cm]
Product Width	4.6 in [11.7 cm]
Product Height	1.2 in [3.0 cm]
Weight of Product	1.3 lb [0.6 kg]

Packaging Information

Package Quantity	1
Package Length	14.5 in [36.9 cm]
Package Width	9.4 in [23.9 cm]
Package Height	3.1 in [7.9 cm]
Shipping (Package) Weight	5.1 lb [2.3 kg]

What's in the Box

Included in Package	1 - HDMI over IP transmitter
	1 - HDMI over IP receiver
	2 - universal power adapters (NA, EU, UK, ANZ)
	2 - mounting bracket sets
	2 - CAT5e cables
	2 - RJ11 to RS232 adapters
	2 - RJ11 cables
	1 - plastic screwdriver
	1 - quick-start guide

Warranty Information

Warranty	2 Years
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****Product appearance and specifications are subject to change without notice.***