

NetworkAV™ 1080p HDMI over IP Receiver — 120M Add-On

The EXT-AVIP120MRX adds display endpoints to any EXT-AVIP120M-based NetworkAV system — decoding full HD 1080p/60 HDMI signals from a remote encoder over IP and delivering them to a display via a single UTP CAT5e/6 cable up to 120m (394 ft). Sold separately from the kit, this standalone decoder allows integrators to scale multi-display installations without purchasing additional transmitters.

The EXT-AVIP120MRX shares the same compact metal enclosure, mounting ears, IP configuration interface, and IR pass-through capabilities as the EXT-AVIP120M kit receiver. Compatible with point-to-many and many-to-many topologies, it supports cascaded 10G switch configurations for large-scale display networks in signage, education, and commercial AV applications.

● Decoder Only

● 1080p@60Hz

● 120M Range

● IR Control

● HDCP Compliant

FEATURES

- ✓ Standalone HDMI over IP decoder — expands any EXT-AVIP120M system to additional display endpoints
- ✓ Decodes 1080p HDMI signals from a remote encoder over IP — up to 120m (394 ft) over single UTP CAT5e/6
- ✓ Supports point-to-many and many-to-many network configurations
- ✓ Cascadable via 10G Ethernet switches for large-scale display networks
- ✓ Wideband IR pass-through 38–56kHz for remote source control
- ✓ Embedded HTTP server for IP address configuration via web browser
- ✓ Metal enclosure with integrated mounting ears and 5V DC power supply included

PACKAGE CONTENTS

1× Receiver • 1× Power adapter DC 5V/1A • 1× IR-RX cable • 1× Operating instructions



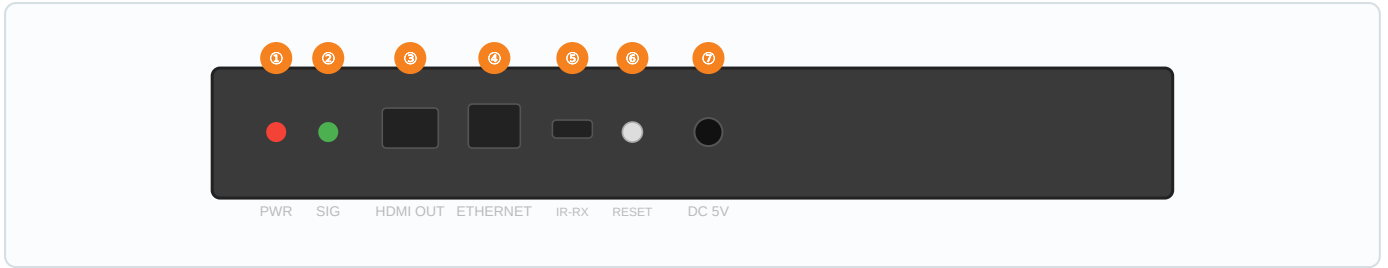
Specifications

VIDEO	
Compression	MJPEG
Supported Formats	DTV/HDTV: 480i / 576i / 480p / 576p / 720p / 1080i / 1080p
Input Video Signal	0.5–1.0V P-P
Input DDC Signal	5V P-P (TTL)
Video Output	HDMI
HDCP	Compliant
TRANSMISSION	
Max Distance	120m (394 ft) over CAT5E/6, 24AWG solid
Protocol	TCP/IP
CONTROL	
IR Frequency	38–56kHz
NETWORK	
Default IP (TX)	192.168.168.55 (MAC: 00:0b:78:00:60:01)
Default IP (RX)	192.168.168.56 (MAC: 00:0b:78:00:60:02)
POWER	
Supply	DC 5V/1A (included)
Consumption	TX: 3W max / RX: 3W max
ENVIRONMENTAL	
Operating Temperature	-5 to +35°C (+23 to +95°F)
Operating Humidity	5–90% RH, non-condensing
PHYSICAL	
Dimensions (L×W×H)	4.07" × 3.68" × 0.97" (103.5 × 93.5 × 24.6mm)
Net Weight (each)	0.49 lbs (220g)
CERTIFICATIONS	
Regulatory	FCC Class B (Part 15)



Panel Description

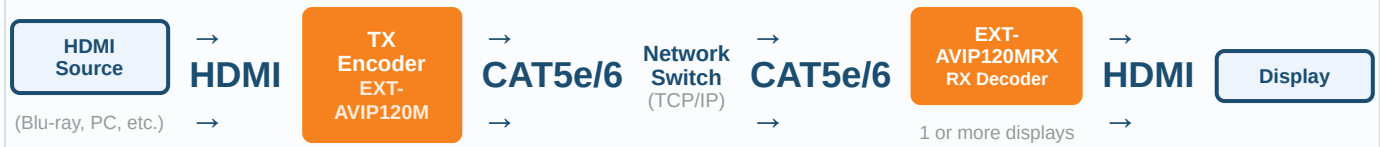
RECEIVER (RX) PANEL



NO.	NAME	FUNCTION
①	Power LED	Illuminates red when power is connected.
②	Signal Status LED	Green when a valid IP stream is received and network link is established.
③	HDMI Output	Connect to the display device (TV, monitor, projector).
④	Ethernet Port	RJ45. Connect to network switch or directly to transmitter.
⑤	IR-RX Port	Connect IR-RX cable. Place in line of sight of remote control handset.
⑥	Reset Button	Hold 5–10 sec after power-on green LED to restore default IP (192.168.168.56).
⑦	DC 5V Input	5V/1A power adapter input.



Scale-Out — Adding Displays to an Existing 120M IP System



How it works: The EXT-AVIP120MRX connects to the same network as the EXT-AVIP120M encoder. Configure a unique IP address for each RX unit via the embedded web server. In one-to-many configurations, all RX units on the network will display the TX signal simultaneously. For many-to-many, configure separate VLANs for each TX/RX group.

IP CONFIGURATION

Each TX and RX has an embedded HTTP server. Access via web browser by connecting a PC on the same subnet (default: 192.168.168.x). Default TX IP: **192.168.168.55**, Default RX IP: **192.168.168.56**. Assign unique IPs for each device in multi-unit deployments.

Factory reset: power on device, wait for green LED, then press and hold reset button 5–10 seconds until green LED goes out.

TROUBLESHOOTING

Q: No video on the display?

A: Verify both TX and RX power LEDs are lit. Confirm TX and RX are on the same network subnet and have unique IP addresses. Check CAT5e/6 cable follows EIA-TIA 568B standard. Try the reset procedure on both units.

Q: Ghost image or distortion on output?

A: Check the display's resolution settings. Try a higher-quality CAT6 cable. Ensure cable length does not exceed 120m for 1080p 8-bit signals.

Q: Static increases when connecting video connectors?

A: Verify grounding. Do not share ground connections with the display device. Use shielded CAT6 cables with metal RJ45 connectors.

