NetworkAV™ H.264 HDMI Receiver over IP with PoE & RS-232

The EXT-AVIPH264RX decodes H.264-compressed 1080p HDMI streams from any EXT-AVIPH264TX transmitter on the same IP network, delivering full HD video and audio to a display over a single CAT5e/6 cable up to 394 ft (120m). PoE support eliminates the need for a local power outlet at the display location.

Add EXT-AVIPH264RX units to any existing NetworkAV H.264 system to scale to any number of displays without rewiring. Group ID selection via remote controller or web browser enables any receiver to tune to any transmitter on the network — supporting flexible multi-source, multi-display distribution in corporate, retail, and digital signage environments.

- H.264 over IP
- PoE Powered
- 1080p@60Hz
- RS-232 Control
- HDCP Compliant

FEATURES

- ✓ Decodes H.264 IP streams to full HD 1080p HDMI output — up to 394 ft (120m) over a single CAT5e/6 cable
- ✓ Add-on receiver — expand any EXT-AVIPH264TX system to any number of displays
- ✓ Dual power input: 802.3af PoE compliant + DC 5V (no power adapter required when using PoE switch)
- ✓ Group ID source selection (00–63) via IR remote controller or web browser
- ✓ Bidirectional RS-232 pass-through up to 115,200 baud — 8 baud rate presets
- ✓ Wideband IR pass-through 38–56kHz for remote source control
- ✓ HDCP compliant — compatible with protected content sources

PACKAGE CONTENTS

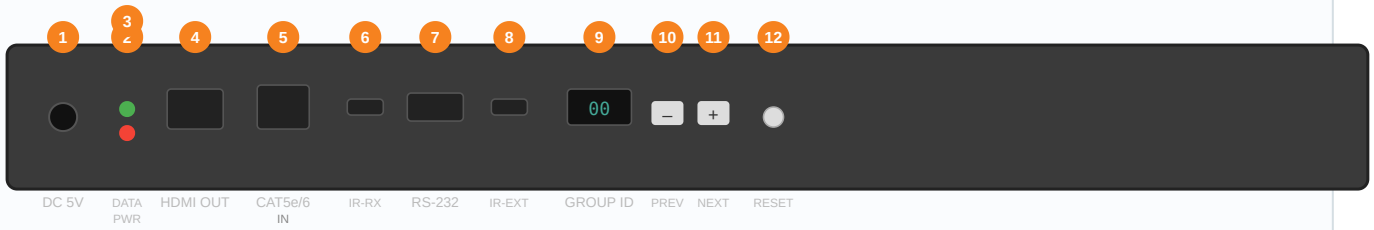
1× Receiver • 1× Power adapter 5V 1A • 1× IR-RX cable • 1× Remote controller • 2× Detachable mounting ears • 4× Screws

Specifications

VIDEO	
Compression	H.264 over TCP/IP
Supported Formats	480i / 480p / 576i / 576p / 720p / 1080i / 1080p@60Hz
Streaming Bit Rate	15 Mbps
HDCP	Compliant
AUDIO	
Format	LPCM
Sampling Rate	48kHz
CONTROL	
IR Frequency	38–56kHz
RS-232 Baud Rate	Default 2400 bps; 8 options: 2400 / 4800 / 9600 / 19200 / 28800 / 38400 / 57600 / 115200
NETWORK	
Default IP (RX)	192.168.1.12
Group ID Range	00–63
Switch Requirements	IGMP + DHCP support recommended for multi-unit deployments
CONNECTORS — RECEIVER	
Input	1× RJ45
Output	1× HDMI Type-A female
Control	1× Phoenix RS-232, 1× IR-RX (38–56kHz), 1× IR-Ext (38kHz)
POWER	
Supply	DC 5V/1A or 802.3af PoE (36–57V)
Consumption	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)	4.69″ × 3.13″ × 1.10″ (119 × 79.5 × 28mm)
Net Weight	0.62 lbs (0.28kg)
CERTIFICATIONS	
Regulatory	FCC Class B (Part 15)

Panel Description

RECEIVER (RX) PANEL



NO.	NAME	FUNCTION
1	**DC 5V Input**	5V/1A power adapter input. Not required when powered via PoE switch.
2	**Data LED (Green)**	Blinks when the unit is actively receiving and decoding data.
3	**Power LED (Red)**	Illuminates solid red when power is connected.
4	**HDMI Output**	Connect to the display device (TV, monitor, projector).
5	**CAT5e/6 Input**	RJ45 Ethernet input. Connect to PoE switch or directly to TX.
6	**IR-RX Port**	Connect the IR-RX cable. Place in line of sight of the remote control handset.
7	**RS-232 Port**	3-pin Phoenix connector. Bidirectional RS-232 pass-through. Default 2400 bps.
8	**IR-Ext Port**	External IR emitter (38kHz).
9	**Group ID LED**	Shows current Group ID (00–63). Set to match the TX to receive that source.
10	**Group ID –**	Decrements Group ID. Hold 3 sec for factory reset.
11	**Group ID +**	Increments Group ID.
12	**Reset Button**	Pin reset. Hold 10 sec to restore factory defaults (IP: 192.168.1.12, Group: 00).

Many-to-Many Distribution — Multi-Source Display Network

How it works: Each EXT-AVIPH264RX tunes to any transmitter on the network by matching its Group ID to the desired TX Group ID. Set via remote controller or web browser — no recabling needed. Any receiver can switch to any source at any time, enabling flexible multi-source, multi-display distribution over the existing IP network.

TROUBLESHOOTING

Q: Receiver shows no image after network configuration?
A: Confirm the RX Group ID matches the TX Group ID. Verify the RX IP address is unique and on the same subnet as the TX. If using DHCP, confirm the switch has DHCP enabled and that the RX received an IP address.

Q: How do I add a new RX to an existing system?
A: Connect the new RX to the PoE switch. If DHCP is enabled, the switch assigns it an IP. Set the Group ID on the new RX to match the transmitter you want to display. No changes to the TX are required.

Q: Can I use the EXT-AVIPH264RX with a third-party encoder?
A: The EXT-AVIPH264RX is designed to work with the EXT-AVIPH264TX. Compatibility with third-party H.264 over IP encoders depends on the encoder's protocol implementation and Group ID/multicast address scheme. Contact technical support for guidance on specific encoder compatibility.