4K60 HDR HDMI Repeater with Signal Retiming - 18Gbps, HDCP 2.2

Rescue Marginal HDMI Runs Without a Cat Extender Pair: Inline Retiming, CEC & ARC Pass-Through, Optional Micro-USB Power

MPN: HDRPT4K



Restores a stable 18Gbps 4K signal with HDR support on HDMI runs that are too long or too marginal for passive cable, without pulling Cat cable or mounting a powered extender pair. HDRPT4K is a compact inline HDMI repeater, 2.56 × 0.39 × 0.94 in (65 × 10 × 24 mm) and 15 g. It sits between two HDMI cables at the wall plate, behind the display or mid-run. It draws its 5V from the HDMI source over the cable and uses 0.75W. A Micro-USB port takes 5V injection when the source drive is weak or units are cascaded. It is the right choice for conference rooms, classrooms, residential retrofits and signage fixtures, where keeping the cable already in the wall matters more than the reach of a Cat extender kit.

Signal retiming regenerates a clean signal at the repeater, so the next cable segment starts at full strength rather than carrying forward the jitter of the last one. The repeater is HDMI 2.0 and HDCP 2.2 compliant and backward compatible with HDMI 1.x and HDCP 1.x. It supports up to 4096×2160@60Hz (4:4:4, 8-bit), HDR sources and 12-bit Deep Color up to 1080p@60Hz. LPCM up to 8 channels, Bitstream and HD Bitstream audio pass unchanged. CEC and ARC bypass keep display control and audio return to the AVR or soundbar working across the run, and there are no settings to configure. The strongest differentiator is a documented cascade of up to four units, or five cable segments, each rated to 16 ft (4.9 m) at 4K on 24AWG cable. That turns a short HDMI chain into a planned, repeatable fix. Power injection on the first and last unit is recommended in a cascade.

18Gbps	Retiming	4 Units	CEC & ARC	0.75W
4K60, HDR, HDCP 2.2	Clean Signal Regeneration	Cascade, 5 Segments	Bypass Supported	HDMI Bus Powered

KEY FEATURES

- 18Gbps HDMI 2.0 / HDCP 2.2, backward compatible with HDMI 1.x and HDCP 1.x
- Up to 4096×2160@60Hz (4:4:4, 8-bit); HDR; 12-bit Deep Color to 1080p@60Hz
- Signal retiming regenerates a clean signal for the next segment
- Cascade up to 4 units (5 segments); inject power on the first and last unit
- 4K up to 16 ft (4.9 m) per segment on 24AWG passive HDMI cable
- CEC and ARC bypass; LPCM 8ch, Bitstream and HD Bitstream audio pass-through
- Powered by HDMI source 5V at 0.75W; optional 5V injection via Micro-USB
- Compact 65 × 10 × 24 mm, 15 g inline design with no controls to set

SPECIFICATIONS

HDMI / HDCP	18Gbps - HDMI 2.0 - HDCP 2.2 - backward compatible 1.x
Max Resolution	4096×2160@60Hz (4:4:4, 8-bit)
Deep Color / HDR	12-bit up to 1080p@60Hz · HDR supported
Audio	LPCM 8ch · Bitstream · HD Bitstream
CEC / ARC	Bypass supported
Retiming / Cascade	Signal retiming · up to 4 units (5 segments)
Distance (4K)	16 ft (4.9 m) per segment, 24AWG passive HDMI
Connectors	HDMI Type-A in · HDMI Type-A out · Micro-USB 5V
Power	HDMI source 5V or Micro-USB 5V · 0.75W
Dimensions / Weight	2.56 × 0.39 × 0.94 in · 0.03 lbs / 0.53 oz (15 g)
Enclosure / ESD	Black plastic · ±8kV air / ±4kV contact
Environment	32–104°F (0–40°C) operating · 20–90% RH

APPLICATIONS

HDMI Signal Extension	HDMI Cable Cascading	Legacy Sources
Regenerates the signal partway along a long run	A repeater between each cable pair	Adds 5V via Micro-USB when the source supplies too little