18Gbps 4K60 HDMI over HDBaseT Extender Kit with PoC - 40m 4K / 70m 1080p

Power Both Ends from One Adaptor - 4K60 4:4:4 10-bit HDR, HDCP 2.2, Bi-Directional IR & RS-232 over a Single CAT6

MPN: EXT-HDBT18G-70M

Delivers 4K60 4:4:4 HDR from the rack or lectern to a display or projector up to 40 m (131 ft) away, with power needed at only one end of the run. The kit is a compact black metal transmitter and receiver, each 4.53 x 2.56 x 0.67 in (115 x 65 x 17 mm), linked by a single straight-through CAT6 cable that also carries 1080p to 70 m (230 ft). One 24V/1A adaptor plugged into either unit powers both over the cable, so a ceiling projector or a display above a fireplace needs no outlet. It is the right choice for classrooms, meeting rooms, hospitality venues and residential media rooms where a clean single-display run with full 18Gbps video and control matters more than eARC, USB or Ethernet extension.

The link is HDMI 2.0b at 18Gbps with HDCP 2.2 and 1.4. It passes 10-bit HDR and HBR audio, including Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos and DTS:X, with CEC bypass. Two independent IR channels and bi-directional RS-232 on 3-pin Phoenix connectors share the same cable. A control system at the rack can drive the display, and a handheld remote at the display can still operate the source. Two IR emitter cables and two IR receiver cables are in the box, so both directions work out of the box. Nothing touches the network, so there is no IP addressing to plan and no IT sign-off to wait for. Link and HDCP status lamps on both units show at a glance whether the cable run or the source is the problem. The single strongest differentiator is Power over Cable from either end: the adaptor goes wherever the outlet is, at the source or at the display.

18Gbps	40m / 70m	PoC	10-bit HDR	IR & RS-232
HDMI 2.0b, 4K60 4:4:4	4K60 / 1080p Reach	One Adaptor, Either End	Atmos & DTS:X	Bi-Directional Control

KEY FEATURES

- HDMI 2.0b 18Gbps, HDCP 2.2/1.4 and DVI compliant
- 4K60 4:4:4 to 131 ft (40m); 1080p to 230 ft (70m) over one CAT6
- 10-bit HDR and HBR audio pass-through: Dolby Atmos, DTS:X, TrueHD, DTS-HD MA
- Power over Cable: one 24V/1A adaptor at either unit powers both
- Bi-directional IR on two independent channels, emitters and receivers included
- Bi-directional RS-232 on 3-pin Phoenix for display or source control
- CEC bypass; no network or IP configuration required
- Link and HDMI/HDCP status lamps on both units

SPECIFICATIONS

HDMI / HDCP	HDMI 2.0b · 18Gbps · HDCP 2.2/1.4 · DVI
Resolution	Up to 4K60 4:4:4 · 1080p120 · 1080p 3D
Color / HDR	RGB, YCbCr 4:4:4/4:2:2 · 10/12-bit · 10-bit HDR
Audio	HBR pass-through · Atmos, DTS:X, TrueHD, DTS-HD MA
Distance	4K60 to 131 ft (40m) · 1080p60 to 230 ft (70m)
Cable	Single CAT6, straight-through (no crossover)
Control	Bi-directional IR (2 channels) · Bi-directional RS-232
TX Ports	HDMI In · HDBaseT Out · IR In/Out · RS-232 · DC 24V
RX Ports	HDBaseT In · HDMI Out · IR In/Out · RS-232 · DC 24V
Power	PoC from one 24V/1A adaptor at either end · 24W max
Dimensions / Weight	4.53 × 2.56 × 0.67 in (115 × 65 × 17 mm) each · 0.89 lbs (405 g) TX + RX
Environment	Operating 32–104°F (0–40°C) · 20–90% RH
Package Contents	1x HDMI 18Gbps Transmitter • 1x HDMI 18Gbps Receiver • 2x Wideband IR Tx (blaster) cable • 2x Wideband IR Rx (receiver) cable • 1x 24V/1A Power Adaptor

APPLICATIONS

Classroom Projectors	Meeting Rooms	Residential Media Rooms	Bars and Restaurants	Houses of Worship
Ceiling projector, power at lectern	RS-232 display control, no network	4K HDR with IR back to the rack	Control the source from the floor	1080p confidence monitors to 70m