

4K60 HDMI-over-Fiber Extender with Full Control over One Fiber (10km)

Add IR, RS-232 & Audio De-embed to Fiber KVM — 4K60 4:4:4 HDCP 2.2 Video plus Keyboard/Mouse and Serial without Copper Ground-Loop or EMI Risk

MPN: EXT-HD4KFIBCTL-10KM



Carries a full 4K60 4:4:4 HDMI signal — plus keyboard, mouse, IR and serial control — up to 10km on a single single-mode fiber pair. The kit pairs a transmitter and receiver in compact black metal enclosures, each drawing under 5W from a locking 5V/2A supply and light enough to mount wherever the run ends. It is the right choice for campus, broadcast and command-centre runs where distance and galvanic isolation matter more than the 100m ceiling and copper ground-loop risk of HDBaseT.

Built on HDMI 2.0b at 18Gbps with HDCP 2.2, it passes HDR10, HDR10+, Dolby Vision and HLG, breaks out de-embedded analog audio on a Phoenix connector at the receiver, and feeds a local confidence monitor from the transmitter's HDMI loop-out. Advanced EDID management and a front-panel DIP switch commission the link in the field, while bi-directional IR, RS-232 pass-through and USB 1.1 KVM share the same fiber — control that competing 10km fiber extenders drop, forcing a second cable for keyboard, mouse and serial. 10G SFP+ modules over LC single-mode fiber reach the full 10km, or up to 300m over OM4 multi-mode.

 4K60 4:4:4 18Gbps HDCP 2.2	 10km Single-Mode Fiber	 USB KVM Keyboard & Mouse	 Bi-Directional IR & RS-232	 Audio De-Embed Phoenix Output
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KEY FEATURES

- 4K60 4:4:4 at 18Gbps, HDMI 2.0b, HDCP 2.2
- Up to 10km over single-mode fiber; up to 300m over OM4
- HDR10, HDR10+, Dolby Vision and HLG pass-through
- USB 1.1 keyboard/mouse (KVM) over the fiber link
- Bi-directional IR and RS-232 pass-through
- HDMI loop-out on the transmitter for a local monitor
- De-embedded analog audio on a Phoenix connector at the receiver
- Advanced EDID management with front-panel DIP switch

SPECIFICATIONS

HDMI / HDCP	HDMI 2.0b · HDCP 2.2
Video Bandwidth	18Gbps
Max Resolution	4K60 4:4:4 (3840 & 4096 × 2160)
Color	RGB/YCbCr 4:4:4 · 8/10/12-bit
HDR	HDR10, HDR10+, Dolby Vision, HLG
Distance	10km SMF · up to 300m OM4 MMF
Fiber / SFP	10G SFP+ · LC single-mode
Control	USB 1.1 KVM · bi-dir IR · RS-232
Audio Out	De-embed L/GND/R Phoenix (RX)
Loop-Out	HDMI loop on transmitter
Power	AC 100–240V · DC 5V/2A · 5W max
Dimensions / Weight	5.67 × 3.07 × 0.91 in · 0.74/0.73 lbs per unit

APPLICATIONS

 Campus Distribution 4K and control across buildings	 Broadcast Master Control 4K KVM at the operator desk	 Medical Imaging Isolated 4K reading room	 Command & Control Long EMI-hostile riser runs	 Large-Venue Projection Feed a distant projector
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