

4K60 HDMI-over-Fiber Extender with USB KVM (10km)

Rack the Source, Control It from the Display — Point-to-Point 4K60 4:4:4 plus Keyboard/Mouse over One Fiber Pair, No Switch and No Network to Engineer

MPN: EXT-HD4KFIBKVM-10KM



Racks a 4K source in a secure, climate-controlled equipment room and delivers its uncompressed picture — plus keyboard and mouse control — to a display up to 10km away over a single fiber. The matched transmitter and receiver are compact black metal units measuring 4.72" × 3.07" × 0.96" each, drawing under 4W from a locking 5V supply, with an HDMI loop-out at the source and analog audio de-embedding at the display. It is the point-to-point choice for stadiums, campuses, hospitals and control rooms where reach, signal integrity and remote control matter more than the many-to-many switching of an AV-over-IP fabric.

The link carries true 4K60 4:4:4 at 18Gbps (HDMI 2.0b) with HDCP 2.2 and full HDR10, HDR10+, Dolby Vision and HLG pass-through, alongside LPCM 7.1 and the lossless Dolby and DTS bitstreams, so chroma is not subsampled across the run. USB keyboard and mouse travel in both directions for KVM control of the source from the display end, advanced EDID management resolves the connected sinks automatically, and 10G SFP+ / LC optics let the integrator match the module to the fiber plant — single-mode to 10km or OM4 multimode to 300m. Its strongest differentiator is combining uncompressed 4K60 4:4:4 and USB KVM on one point-to-point fiber pair, where the long-run fiber extenders that reach this far are otherwise video-only.

 4K60 4:4:4 18Gbps HDMI 2.0b	 10km Single-Mode Fiber	 USB KVM Keyboard/Mouse Over Fiber	 SFP+ / LC Single-Mode or OM4	 HDR HDR10/10+/Dolby Vision/HLG
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KEY FEATURES

- 4K60 4:4:4 uncompressed video at 18Gbps (HDMI 2.0b), HDCP 2.2
- Up to 10km over single-mode fiber, or 300m over OM4 multimode
- USB keyboard/mouse KVM control of the source from the display end
- HDR10, HDR10+, Dolby Vision and HLG pass-through
- HDMI loop-out at the transmitter, analog audio de-embed at the receiver
- LPCM 7.1 plus Dolby TrueHD and DTS-HD Master Audio bitstreams
- 10G SFP+ / LC optics selectable to single-mode or multimode fiber
- Advanced EDID management in compact metal enclosures

SPECIFICATIONS

HDMI / HDCP	HDMI 2.0b · HDCP 2.2 · 18Gbps
Max Resolution	4K 4096×2160p60 4:4:4 · 8/10/12-bit
Color Space	RGB · YCbCr 4:4:4 / 4:2:2 / 4:2:0
HDR	HDR10 · HDR10+ · Dolby Vision · HLG
Fiber Reach	10km single-mode · 300m OM4 multimode
Fiber Interface	10G SFP+ module · LC connector
USB KVM	USB 1.1 keyboard/mouse · bi-directional
Connectors (TX)	HDMI in · HDMI loop-out · LC · USB-B host
Connectors (RX)	LC in · HDMI out · 3.5mm audio · USB-A K&M
Audio	LPCM 7.1 · Dolby TrueHD · DTS-HD MA · DSD
Power	AC 100–240V · DC 5V/2A · under 4W per unit
Dimensions / Weight	4.72 × 3.07 × 0.96 in · TX 0.57 / RX 0.56 lbs
Package Contents	1× 4K60 HDMI over Fiber Extender (Transmitter) · 1× 4K60 HDMI over Fiber Extender (Receiver) · 2× 5V/2A Multinational Locking Power Supply · 1× USB Cable (Type A to Type B, 1.5m) · 4× Mounting Ear · 8× Machine Screw (KM3×6)

APPLICATIONS

 Stadiums & Venues Rack the PC, control from the bowl	 Airports & Transit Concourse displays past copper reach	 Surgical & Imaging Isolated 4:4:4 to a viewing room	 Campus AV Auditoriums fed from a central head-end	 Broadcast & Post Machine room to the gallery
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