

HDMI KVM SINGLE-MODE FIBER EXTENDER

BRAND: PRITECH

MODEL NO.: - PA-C6FOUSB4K-LC



OVERVIEW:

- This Full HD HDMI KVM optical extender is designed to transmit high-quality video, audio, and control signals over long distances using fiber optic technology. It supports 1080p at 60 Hz resolution and can extend HDMI signals up to 40 km through LC single-mode fiber, delivering clear and stable images with very low latency.
- The system includes a transmitter and receiver that support USB keyboard and mouse (KVM) extension, allowing users to control a remote computer or media source as if it were locally connected. It also provides RS-232 passthrough for external device control and an HDMI loop-out port for local display monitoring.
- Supporting both direct point-to-point connection and cascading through a gigabit network switch, this extender offers flexible system design and easy expansion. With fiber-based transmission that is immune to electromagnetic interference, it is ideal for conference rooms, control rooms, educational institutions, and professional AV installations.

FEATURES:

- Supports Full HD HDMI video up to 1080p @ 60Hz
- Extends HDMI signal up to 40 km over LC single-mode fiber
- Low-latency, high-quality video and audio transmission
- Supports point-to-point and gigabit network switch cascading
- Built-in HDMI loop-out for local display
- Supports USB keyboard and mouse (KVM) extension
- RS-232 passthrough for device control
- Stable and secure fiber-optic transmission with immunity to EMI
- Plug-and-play operation with no software required
- Ideal for conference rooms, control rooms, education, and AV applications

TECHNICAL SPECIFICATIONS:

PARAMETER	SPECIFICATION
HDMI Input Cable Length	≤ 5 m
HDMI Compatibility	HDMI 1.3, HDCP 1.4
Supported Resolutions	1080p @ 50/60Hz, 720p @ 50/60Hz, 1920×1200 @ 60Hz
TMDS Signal Level	0.7 ~ 1.2 Vp-p (TMDS)
DDC Signal Level	5 Vp-p (TTL)
Connection Types	One-to-one connection, Switch cascading
Transmission Distance	Up to 40 km over single-mode optical fiber
Transmission Latency	80 – 140 ms
HDMI Audio Output	LPCM 2.0
3.5 mm L/R Audio Output	PCM
RS-232 Interface	GND / RXD / TXD
RS-232 Baud Rate	Default: 115200 Supported: 2400, 4800, 9600, 19200, 38400, 57600, 115200
Power Supply	DC 5V / 2A
Power Consumption	TX ≤ 7.5 W, RX ≤ 7.5 W
Operating Temperature	–10°C to 50°C
Storage Temperature	–30°C to 70°C
Operating Humidity	0 – 90% RH (non-condensing)
Enclosure Material	Iron
Weight	TX: 307 g RX: 303 g
Color	Black
Dimensions (L × W × H)	106.0 × 103.0 × 25 mm
ESD Protection	Contact discharge ±4 kV, Air discharge ±8 kV
Compliance	IEC61000-4-2
Protection Features	Lightning protection, Surge protection

APPLICATIONS:

- Conference and meeting rooms
- Command and control center
- Control rooms and NOC rooms
- Educational classrooms and lecture halls
- Digital signage and video distribution
- Broadcasting and media monitoring
- Remote PC and server access
- Industrial and automation control systems
- Security and surveillance control rooms
- Home theatre and AV installations



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