

HFX-KM

HDMI 2.0 KVM FIBER EXTENDER



**EXTEND HDMI 2.0 4K@60HZ WITH USB KM, AUDIO AND SERIAL
UP TO 2 KM OVER SINGLE MODE FIBER UNCOMPRESSED**

KEY FEATURES

- Supports resolutions up to 4K Ultra HD (@ 60 Hz)
- USB Keyboard and Mouse extension and emulation
- External power adapter for transmitter and receiver unit
- Supports Stereo Sound
- Compatible with Windows, Mac and Linux Operating Systems
- RS232 Serial Extension
- SmartAVI Ultra Low Latency

APPLICATIONS

- Digital Signage
- Security
- PC Networking
- Conference Center Systems
- Point of Sale
- Camera Surveillance
- Video Phone
- Control Room Systems
- Recording Studio
- PC KVM Extension



Designed and Manufactured in the USA

OVERVIEW

The HFX-KM is a Single Head HDMI 2.0 (3840 x 2160), USB keyboard-mouse and stereo audio extender, sending signals up to 2 km (1.2 miles) away over a single conventional and inexpensive single fiber cable. This new technology is superior to older HDMI extenders that require a special single fiber shielded cable to go a short distance.

The HFX-KM is the leading extender on the market to feature 3840 x 2160 @ 60 Hz, USB and full KVM extension and emulation on one cohesive system and is optimized for UHD 4K@60Hz monitors with crystal-clear picture; excellent for detail driven work.

The HFX-KM extends keyboard-mouse signals for remote workflow management and offers uninterrupted emulation from the user's transmitter unit. This uninterrupted emulation prevents accidental disconnection or deactivation issues during mission critical operations. The HFX-KM's unparalleled KVM extension technology makes it the perfect solution for extending servers in applications ranging from data processing to interactive conferencing.

EXTENDER UNITS



HFX-KM-TX Front



HFX-KM-RX Front

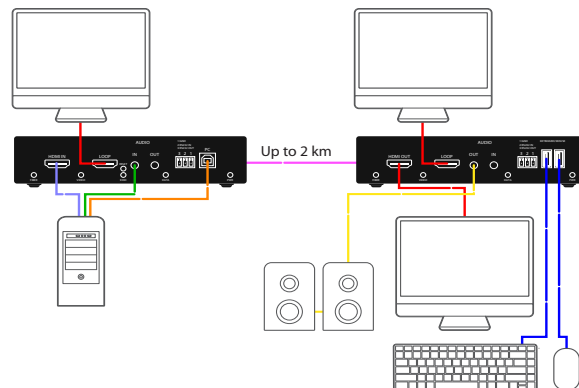


HFX-KM-TX Back



HFX-KM-RX Back

APPLICATION DIAGRAM



SECURITY

When managing content in high-security environments, creating a safe and secure control room is critical. In the vast majority of such applications, that requires routing signals from a server room, where the computers are safely stored, to a control room, where approved personnel access the data and video feeds. Whether that's in a security surveillance center, an operations control room or some other security-related environment, being able to extend video, audio and USB is a must.

The HFX-KM provides system architects with the flexibility they need to create secure environments for servers as well as the end users accessing those computers.

TECHNICAL SPECIFICATIONS

VIDEO	
Format	HDMI2.0
Video Resolution	Resolution: high definition 3840 x 2160 Color Depth: 24-bit color depth Latency: less than 1 ms
Video Bandwidth	Single-link 340 MHz (10.2 Gbps)
Input Interface (TX)	(1) HDMI 19-pins (female) (1) HDMI 19-pins (female) (local)
Output Interface (RX)	(1) HDMI 19-pins (female) (1) HDMI 19-pins (female) (local)
Max Output Distance	Up to 20 ft
Equalization	Automatic
Input TMDS Signal	1.2 Volts [peak-to-peak]
Input DDC Signal	5 Volts [peak-to-peak, TTL]
Data Rate	Supports bandwidths up to 18 Gbps

AUDIO	
Format	Stereo
Input Interface	3.5 mm Jack Socket (female)
Output Interface	3.5 mm Jack Socket (female)

USB	
Input Interface (TX)	(1) USB Type B
Output Interface (RX)	(2) USB 1.1 Type A for KM Devices

SERIAL	
Input Interface (TX)	(1) RS232 Serial, 3-pin phoenix connector
Output Interface (RX)	(1) RS232 Serial, 3-pin phoenix connector

SYSTEM	
Extension Type	Fiber (LC-LC Single)
Cable Requirements	Single Fiber
Maximum Length	Single mode: 2 km (1.2 miles)

OTHER	
Power	100-240 VAC/ 12VDC @ 1A/15W
Dimensions	6.4" W x 1.1" H x 3.9" D
Weight	2.65 lbs (1.43 lbs per unit)
Approvals	UL, CE, ROHS Compliant
Environmental Operating Temperature	+32 to +104°F (0 to +40°C)
Environmental Operating Humidity	20% to 80% (non condensing)
Storage Temperature	-4 to 140°F (-20 to +60°C)
Storage Humidity	Up to 95% (No Condensation)
Compliance EMC	FCC (Class A), CE (Class A), ICES-003
Environmental Compliance	RoHS2 (CE)
Support Warranty	1-year

PART NO.	DESCRIPTION
HFX-KM-S	HDMI, USB, Audio via Single Fiber Extender. Includes: [HFX-KM-TX-S, HFX-KM-RX-S, 2 X (PS12VD1A-DSKTP)]
HFX-KM-TX-S	HDMI, USB, Audio via Single Fiber Transmitter. Includes: [HFX-KM-TX-S, PS12VD1A-DSKTP]
HFX-KM-RX-S	HDMI, USB, Audio via Single Fiber Receiver. Includes: [HFX-KM-RX-S, PS12VD1A-DSKTP]