HFX-UX

HDMI 2.0 KVM FIBER EXTENDER WITH USB 2.0 SUPPORT

EXTEND HDMI 2.0 4K@60HZ, USB 2.0 AND USB KEYBOARD/MOUSE UP TO 10 KM OVER SINGLE MODE FIBER UNCOMPRESSED

FEATURES

- Extends HDMI up to 10 km (6.2 miles) in the Single Mode
- Supports up to 3840 x 2160 digital video resolution @ 60 Hz
- USB Keyboard and Mouse extension
- Uncompressed Video
- External power adapter for transmitter and receiver unit
- Compatible with Windows, Mac and Linux Operating Systems
- Transparent USB 2.0 extension

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-UX is a Single Head HDMI 2.0 (3840 x 2160), USB 2.0, USB keyboard-mouse, sending signals up to 10 km (6.2 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-UX is the first extender on the market to feature 3840 x 2160, USB 2.0 and full KVM extension on one cohesive system and is optimized for Full HD monitors with crystal-clear picture; excellent for detail driven work.

The HFX-UX 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-UX's unparalleled KVM extension technology makes it the perfect solution for extending servers in applications ranging from data processing to interactive conferencing.

EXTENDER UNITS
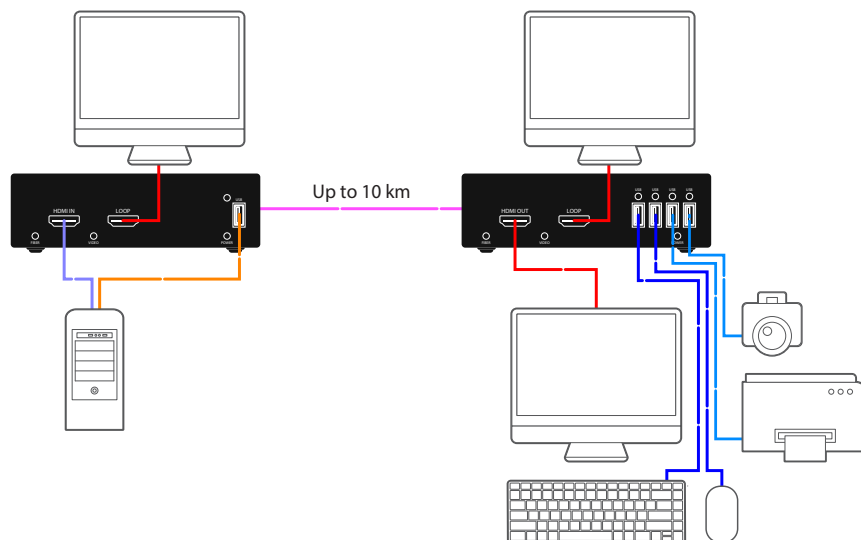

HFX-UX-TX Front

HFX-UX-RX Front

HFX-UX-TX Back

HFX-UX-RX Back

APPLICATION DIAGRAM

Up to 10 km

EXTEND FOR ANY APPLICATION IN ANY ENVIRONMENT

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 and USB is a must.

The HFX-UX 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

SYSTEM	
Extension Type	Fiber (LC-LC Single)
Cable Requirements	Single Fiber
Maximum Length	Single mode: 10 km (6.2 miles)

OTHER	
Power	100-240 VAC/ 12VDC @ 3A/15W
Dimensions	6.7" W x 1.75" H x 5.9" D
Weight	2.6 lbs (1.3 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-UX-S	HDMI, USB 2.0 via Single Fiber Extender. Includes: [HFX-UX-TX-S, HFX-UX-RX-S, 2 X (PS12VD3A-WLLMNT)]
HFX-UX-TX-S	HDMI, USB 2.0 via Single Fiber Transmitter. Includes: [HFX-UX-TX-S, PS12VD3A-WLLMNT]
HFX-UX-RX-S	HDMI, USB 2.0 via Single Fiber Receiver. Includes: [HFX-UX-RX-S, PS12VD3A-WLLMNT]