DFX-UX

DISPLAYPORT AND USB 2.0 KVM VIA DUAL FIBER EXTENDER

TAA COMPLIANT

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

FEATURES

- Extends DisplayPort up to 10 km (6.2 miles) in the Single Mode and up to 500 m (1640 feet) in the Multi Mode from the source
- 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
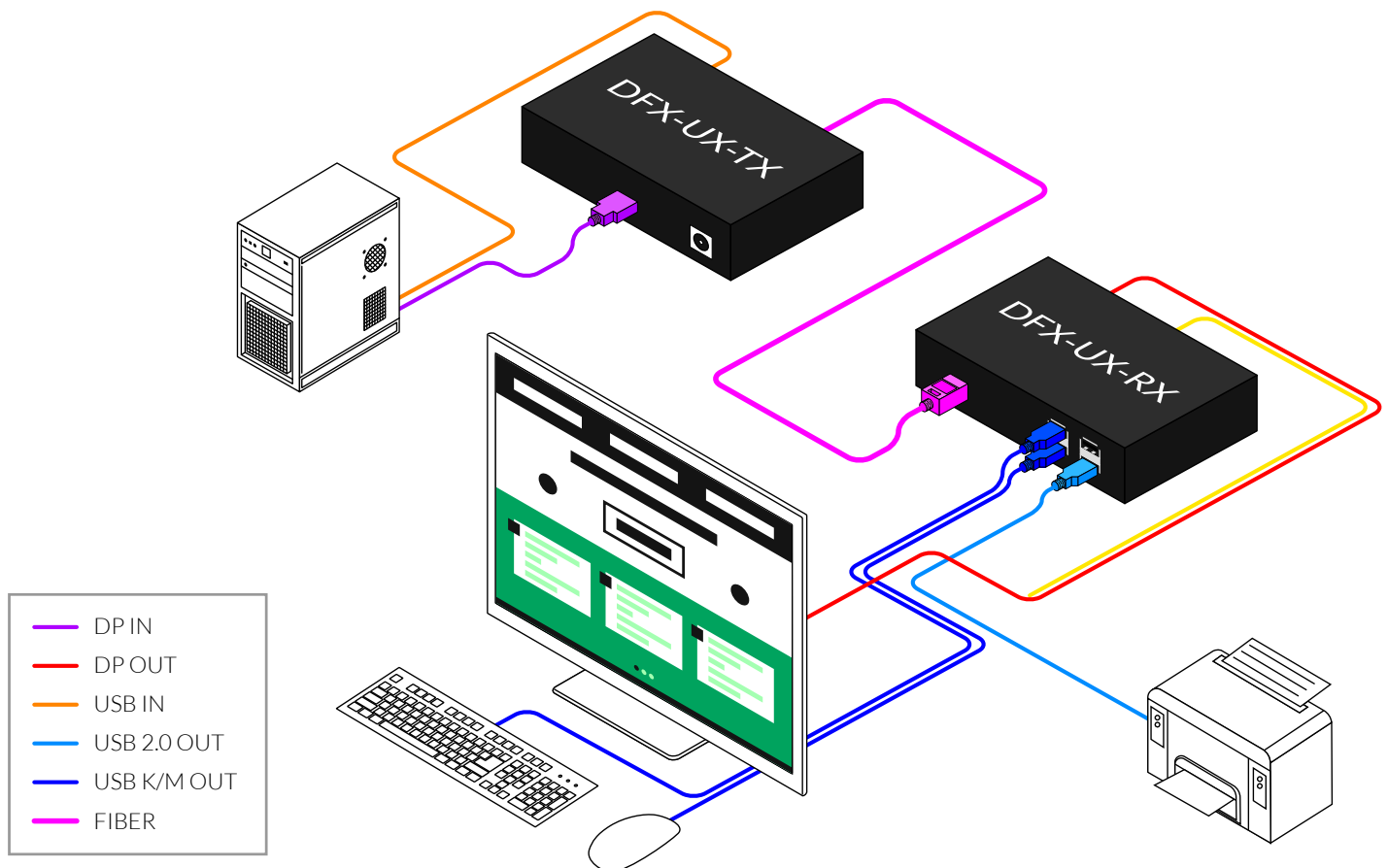- Control Room Systems
- Recording Studio
- PC KVM Extension

Designed and Manufactured in the USA

OVERVIEW

The DFX-UX is a Single Head DisplayPort (3840 x 2160), USB 2.0 and USB keyboard-mouse extender, sending signals up to 10 km (6.2 miles) away over a single conventional and inexpensive a dual fiber cable. This new technology is superior to older DisplayPort extenders that require a special dual fiber shielded cable to go a short distance.

The DFX-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 Ultra HD monitors with crystal-clear picture; excellent for detail driven work.

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

DFX-UX-TX

DFX-UX-RX

- DP IN
- DP OUT
- USB IN
- USB 2.0 OUT
- USB K/M OUT
- FIBER

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, audio and USB is a must.

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

DIGITAL SIGNAGE

Managing a multi-screen digital signage solution requires some important foresight regarding the signal path to those informative and attractive displays. Particularly when it comes to properly scheduled, updated and managed content being displayed, it's much more efficient to keep all of the digital signage hardware in one central location and to extend the video signals out from there.

That means signal extension is an important part of a smart digital signage solution, and the DFX-UX gives users the flexibility they want and need to place their digital signage screens in the right locations to maximize their effectiveness.

AUDIO AND VISUAL RECORDING

For users in the recording arts, maintaining the utmost in signal and recording fidelity is an absolute necessity. For video recording, it is often important that no unsightly computers are visible. Similarly, audio engineers must keep noisy computers away from the rooms where recording happens to ensure the final product sounds professional. In both such instances, the DFX-UX gives users the ideal way to keep their servers or computers away from areas that audio or video recording is being done, ensuring a better final product.

EXTENDER UNITS

DFX-UX-TX Front

DFX-UX-RX Front

DFX-UX-TX Back

DFX-UX-RX Back

TECHNICAL SPECIFICATIONS

VIDEO	
Format	DisplayPort1.2
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) DP 20-pins (female)
Output Interface (RX)	(1) DP 20-pins (female)
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	1.65 Gbps per color

USB	
Input Interface (TX)	(1) USB Type B
Output Interface (RX)	(2) USB 1.1 Type A for KM Devices; (2) USB 2.0 Type A Transparent
Keyboard and mouse	Keyboard and mouse emulation

SYSTEM	
Fiber Interface & Type	Single-Mode Fiber
Cable Requirements	Dual Fiber
Maximum Length	Single mode: 10 km (6.2 miles) Multi mode: 500 m (1640 feet)

OTHER	
Power	100-240 VAC/ 5VDC @ 3A/15W
Dimensions	7.8" W x 1.15" H x 3.65" D
Weight	1 lb (.5 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
DFX-UX-S	DisplayPort and USB 2.0 via Dual Fiber Extender. Includes: [DFX-UX-TX-S, DFX-UX-RX-S, 2 X (PS5VD3A)]
DFX-UX-TX-S	DisplayPort and USB 2.0 via Dual Fiber Transmitter. Includes: [DFX-UX-TX-S, PS5VD3A-WLLMNT]
DFX-UX-RX-S	DisplayPort and USB 2.0 via Dual Fiber Receiver. Includes: [DFX-UX-RX-S, PS5VD3A-WLLMNT]