USB2FX

USB 2.0 EXTENDER OVER FIBER

EXTENDS USB 2.0 UP TO 10 KM OVER FIBER CABLE IN SINGLE MODE

FEATURES

- Extend USB2.0 up to 10 km in Single mode and 500 ft in Multimode
- Supports All USB 2.0 and 1.1 Devices Transparently (Flash Drives, Printers, Cameras, Scanners, etc.)
- Supports USB 1.1 Keyboard and Mouse
- Works on Windows, Mac and Linux Operating Systems
- Integrated Four-Port Hub
- How-swappable SFP module
- Power Adapter for Remote Unit
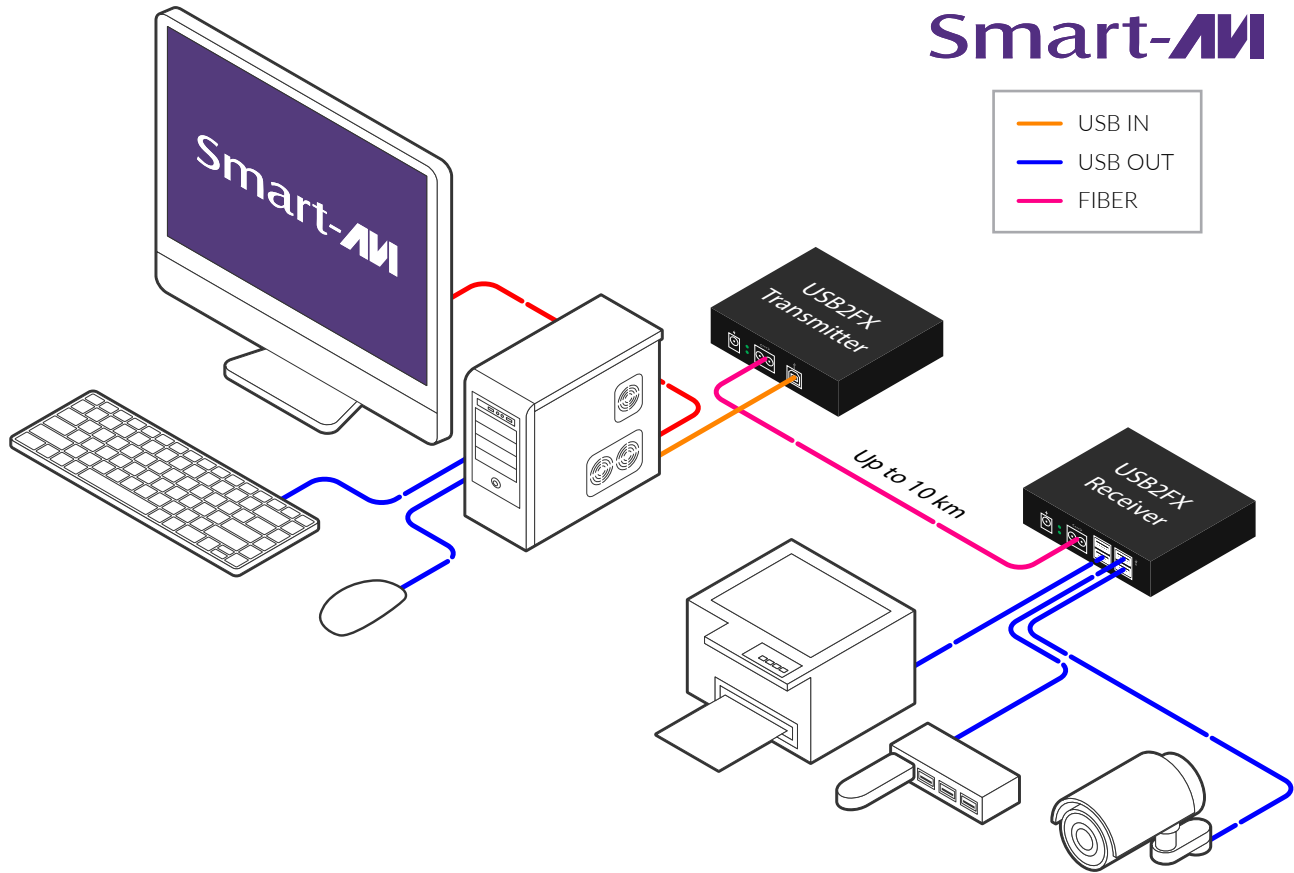- Plug-and-Play

APPLICATIONS

- Digital Signage
- Home Networking
- Remote USB Connections
- USB Device Sharing
- Webcam
- USB Electronic Devices
- Security Systems
- KVM Extension

Designed and Manufactured in the USA

OVERVIEW

SmartAVI's extends standard USB (Universal Serial Bus) 2.0 signals up to 10 km (6.2 miles) in Single mode and 500 ft in Multimode using a single fiber cable. The USB2FX supports all USB 2.0 high-speed devices, from keyboards to digital cameras, and will operate on Windows®, Mac® and Linux® operating systems. An integrated four-port hub allows for multiple devices to be connected to the USB2FX at once. Additional USB hubs can be added, increasing the number of devices that can be plugged into the USB2FX.
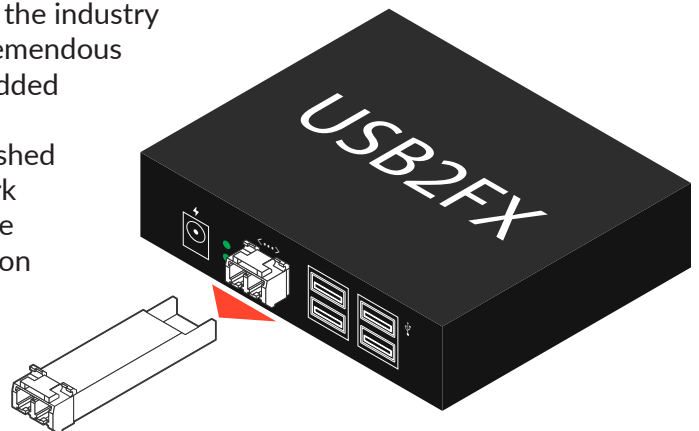

HOT-SWAPPABLE SFP MODULE

The small form-factor pluggable (SFP) module has become the industry standard for optical transceivers. SFP modules have the tremendous advantage of being hot-swappable, meaning they can be added or removed without causing a network interruption. These compact devices make it possible to reconfigure an established network without running new cabling or taking the network offline. The USB2FX extender works with both single-mode and multi-mode SFP transceivers to provide the transmission distance and wavelength that are right for your network operations. No need to power down or otherwise interrupt service.

EXTEND FOR ANY APPLICATION IN ANY ENVIRONMENT

SECURITY

When managing content in high-security environments, it is critical to create safe and secure rooms with limited personnel access. For most applications, best practices require routing signals from a server room to a separate control room where data and video feeds are accessed. Whether this is in a security surveillance center, an operations control room, or any other security environment, it is essential to extend video, audio, and USB. The USB2FX provides system architects with the flexibility to create secure environments for both the server side and the end user side. With video signal extension, users can manage their connected computers with expanded display options and always stay in control of their content.

DIGITAL SIGNAGE

It is important to consider the signal path when managing a multi-screen digital signage solution. Informative and attractive displays require proper scheduling, updates, and content management. The most efficient way to control a sprawling operation is to keep all the back-end hardware in a central location and extend the audio and video signals out to the display hardware. Signal extension is an important component of a smart digital signage solution and the USB2FX gives users flexibility to place their digital signage in the right locations to maximize effectiveness.
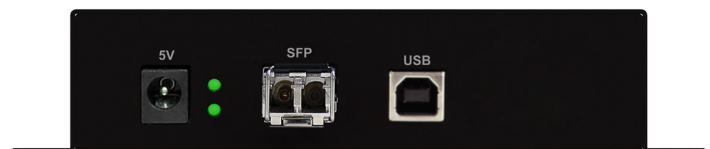
AUDIO AND VISUAL RECORDING

For users in the recording arts, it is essential to maintain the best signal and recording fidelity. At the same time, necessary equipment can impact the quality of the product. For video recording, devices like computers or printers need to stay out of frame. Audio engineers want to keep hardware that makes noise out of the sound booth to ensure their audio sounds clean and professional. The USB2FX gives users the ideal way to keep servers or computers out of filming and recording spaces and create a better final product.

EXTENDER UNIT

USB2FX-TX Front

USB2FX-TX Back

USB2FX-RX Front

USB2FX-RX Back

TECHNICAL SPECIFICATIONS

USB	
Signal Type	USB 2.0
Input Interface (TX)	(1) USB Type B (Female)
Output Interface (RX)	(4) USB Type A (Female)
Distance of Extension	10 km (Single mode); 500 ft (Multimode)

OTHER	
Power	External 100-240 VAC/5VDC3A
Dimensions	4.3" W x 1.1" H x 2.5" D
Weight	1.5 lb
Operating Temperature	0-55 °C (32-131°F)
Storage Temperature	-20-85 °C (-4-185 °F)
Humidity	Up to 95%

PART NO.	DESCRIPTION
USB2FX-S	USB 2.0 over fiber Extender with multimode module. Includes: [USB2FX-TX, USB2FX-RX and 2xPS5VD3A]
USB2FX-TX-S	USB 2.0 over fiber Transmitter. Includes: [USB2FX-TX and PS5VD3A]
USB2FX-RX-S	USB 2.0 over fiber Receiver. Includes: [USB2FX-RX and PS5VD3A]
SM-FSM	(Optional) Single Mode SFP Module for up to 10 km extension