TECHNICAL SPECIFICATIONS

VIDEO	
Resolution	Up to 1920 x 1200 @60Hz
Format	DVI-D Single Link
Input Interface	(2) DVI-D 29-pin female
Output Interface	(2) DVI-D 29-pin female
Maximum Pixel Clock	165 MHz
DDC	Programmable Internal Table 5 volts p-p(TTL)
Input Equalization	Automatic
Input Cable Length	Up to 20 ft.
Output Cable Length	Up to 20 ft.
AUDIO	
Signal Type	Stereo Audio
Input Interface	(1) 3.5 mm Stereo Audio Female
Output Interface	(1) 3.5 mm Stereo Audio Female
USB	
Input Interface	(1) 2.0 Type B Female
OTHER	
Fiber Extender	Fiber-Plug type LC 15km @ Single-mode 9u
Power	Internal 110-240 VAC
Dimensions	17" W x 5.75" D x 1.875" H
Weight FDX-TX2SP	2.45 lbs
Weight FDX-RX2SP	2.55 lbs.
Working Temperature	32 to 122°F (0 to 50 °C)
Working Humidity	Up to 85% RH (no condensation)
Storage Temperature	-4 to 149 °F (-20 to 65 °C)
Storage Humidity	Up to 90% RH (no condensation)
RS-232	Data up to 115,200 bps, N,8,1, No Flow Control
PS2	(2) Keyboard & Mouse

WHAT'S IN THE BOX

PART NO.	QTY	DESCRIPTION
FDX-TX2SP	1	Dual DVI-D, PS2 Keyboard & Mouse, Audio and RS232 Multimode Fiber Extender (Transmitter)
FDX-RX2SP	1	Dual DVI-D, PS2 Keyboard & Mouse, Audio and RS232 Multimode Fiber Extender (Receiver)
EN-SFX4P-EAR-P	4	Rack Mounting Brackets
CCPWR06	2	6' Power Plug Cable
	1	Quick Start Guide

NOTICE

Designed and Manufactured in the USA

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Smart-AVI
SMART AUDIO VIDEO INNOVATION

FDX-S2P

Single-mode Fiber Dual DVI-D Extender

Extends 2 DVI-D Signals, Audio and PS2 Keyboard and Mouse up to 9 Miles (15km) over 2 Fiber Optic Cables

Quick Start Guide

INTRODUCTION

The FDX-S2P consists of a transmitter and receiver that extend two DVI-D outputs, audio, PS2 keyboard, PS2 mouse and RS-232 Up to 9 Miles (15km) using Single-mode fiber optic cabling.
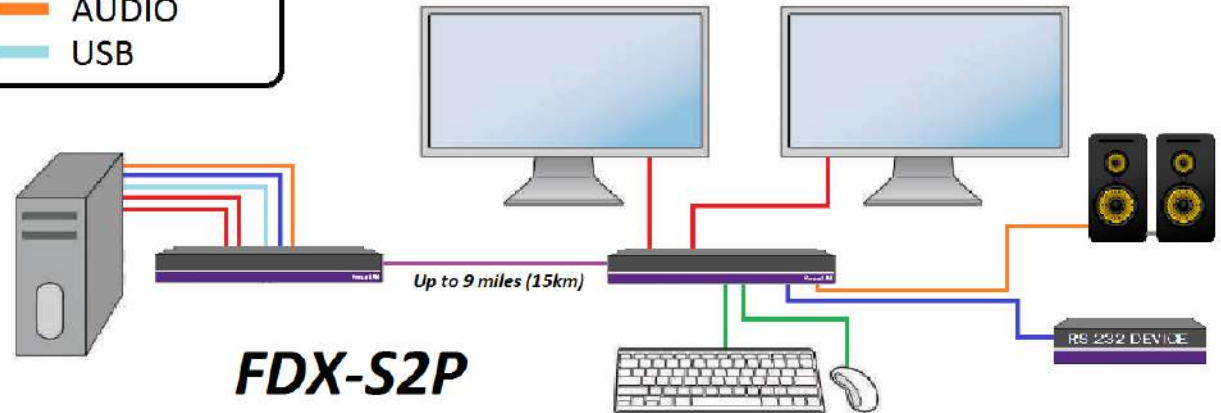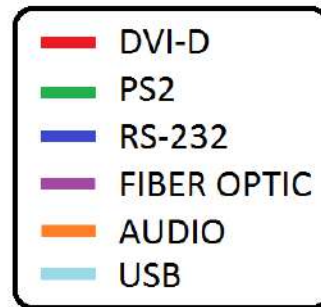
FEATURES

- Dual channel DVI-D, audio, PS2 keyboard, PS2 mouse and RS-232.
- Top Signal Quality over Single-mode Fiber up to 9 Miles (15km)
- Video Resolutions up to 1920 x 1200 WUXGA at 60Hz
- Customizable/Programmable DDC Table for Mac/PC
- Fiber Plug Type LC
- Compatible With all Major KVM Switches
- Supports Mac, PC, and Linux DVI
- Uses universal DVI Single Link connectors
- Zero pixel loss with TMDS signal correction
- Rack Mountable Solution
- Plug-and-play

WHY FIBER OPTIC?

SmartAVI has created a full line of fiber optic extender products, understanding that this technology is superior to traditional cabling. We use the highest quality fiber optic components for our products.

Fiber optic cables are:

- Capable of transmitting over very long distances with no signal loss.
- Immune to electromagnetic interference. In situations where there is considerable interference, fiber optic cabling is the only solution.
- Much more secure because they cannot be easily tapped. For this reason, military and law enforcement agencies use fiber optic cables for the transmission of sensitive data.
- Relatively inexpensive and small enough to be routed through small spaces.

HARDWARE INSTALLATION

1. Turn off the computer, displays, speakers and any peripheral devices.
2. Connect the USB cable from the computer to the FDX-TX2SP.
3. Optionally connect the RS-232 cable and audio cable from the computer to the FDX-TX2SP.
4. **Do not connect the DVI input from the computer to the FDX-TX2SP. (Link 2 only)**
5. Connect the DVI displays to the DVI connectors on the FDX-RX2SP. (DVI monitors recommended.)
6. Connect PS2 mouse and keyboard to the PS2 connectors on the FDX-RX2SP.
7. Optionally connect speakers and an RS-232 device to the FDX-RX2SP.
8. Connect the FDX-TX2SP to the FDX-RX2SP with Single-mode fiber-optic cables.
9. Power on the computer, displays, speakers and any peripheral devices.
10. Connect the power cords and power on the FDX-TX2SP and the FDX-RX2SP. The status LEDs will flash. It will take up to 30 seconds for the FDX-S2P to learn the EDID settings from the Link 2 connected DVI display. Once the EDID settings are learned the LEDs will stop flashing.
11. Connect the computer's DVI input (Link 2) to the FDX-TX2SP.

WARNING: Be careful not to cross the Video Link Fiber Optic cables. Video Link 1 on the FDX-TX2SP must be connected to Video Link 1 on the FDX-RX2SP. TX Video Link 2 must connect to RX Video Link 2.

Note: Reference the User Manual for EDID learning for the Link 1 input port.
HDMI monitors with DVI to HDMI adapters may work with DVI EDID settings loaded.

TRANSMITTER

RECEIVER