FDX-S4U

DVI-D FIBER EXTENDER FAMILY

Single-mode Fiber up to 10 miles!!

Quad DVI-D Extender, with Audio and USB Keyboard and Mouse

Extends 4 DVI-D Signals, Audio and USB Keyboard and Mouse up to 10 miles over 4 Fiber Optic Cables

The FDX-S4U consists of a transmitter and receiver that extend four DVI-D outputs, with audio, USB keyboard and mouse, and RS-232 control. For exceptional quality and security, fiber optic extension is the best solution. The FDX-S4U can go the distance with single-mode fiber optic cabling with a reach of up to 10 miles.

Made in the USA

www.smartavi.com

FEATURES

The SmartAVI FDX-S4U is capable of supporting four DVI-D monitors, with USB 1.1 keyboard and mouse, stereo audio with serial (RS-232) control. The system includes a transmitter and receiver, which are connected by four fiber optic cables. The transmitter connects to the user's computer with the necessary cables, while the receiver connects to the remote interface devices up to 10 miles away.

- Quad channel DVI-D, audio and USB keyboard and mouse with RS-232 control
- Top Signal Quality over Single-mode Fiber (up to 10 miles)
- Video Resolutions up to 1920 x 1200 WUXGA at 60Hz
- Customizable/Programmable DDC Table for Mac/PC
- Supports all USB 1.1 Keyboards and Mice
- 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

FDX-S4U Receiver Rear

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.

We use only the highest quality fiber optic transceivers.
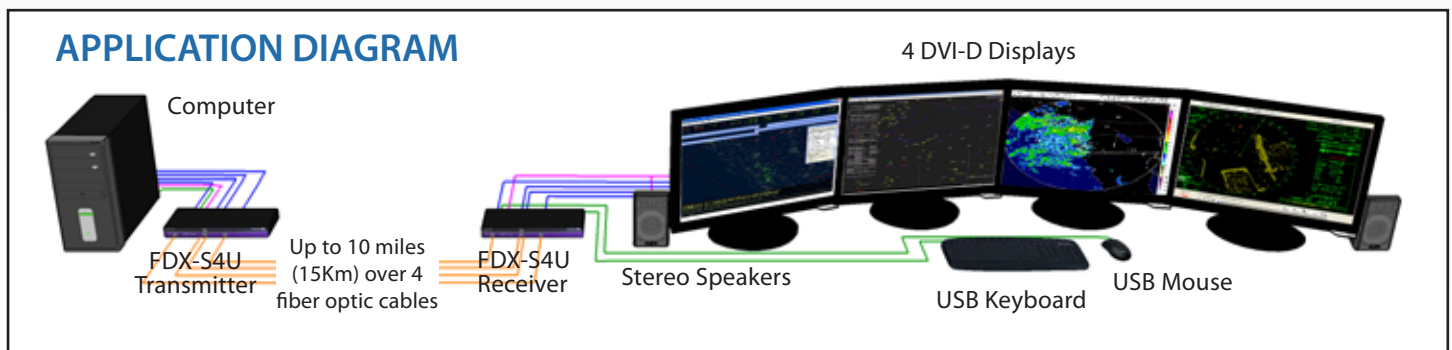
APPLICATIONS

MEDICAL FIELD
In the medical field where sensitive electronic devices are used, isolating workstation computers can be a matter of safety. The FDX-S4U allows the workstation computers to be housed in a central location, away from sensitive devices.

INDUSTRIAL WORK AREAS
In industrial work areas that may be too harsh for a workstation computer, the FDX-S4U can consolidate the computers into a safe location.

SECURE COMPUTING
When it comes to security, the FDX-S4U is an excellent deployment option. With the FDX-S4U, devices can be centralized and secured from public access. This, combined with the intrinsic security of fiber optic cable, make the FDX-S4U one of the most secure KVM solutions available.

APPLICATION DIAGRAM

4 DVI-D Displays

Computer

FDX-S4U Transmitter

Up to 10 miles (15Km) over 4 fiber optic cables

FDX-S4U Receiver

Stereo Speakers

USB Keyboard

USB Mouse

INFORMATION KIOSKS/DISPLAYS
As with most information booths and kiosks, there is a risk of damage or theft. The FDX-S4U is the best way to secure computer hardware, by consolidating it to a secure location away from public access.

FILM/MUSIC RECORDING STUDIOS
When recording with sensitive cameras and microphones, computers are often too noisy to be used in the immediate vicinity. The FDX-S4U isolates the computers into another room, maintaining the silence that recording artists require.

SPECIFICATIONS

AUDIO	
Signal Type	Stereo Audio
Bandwidth	15MHz, 0dB
Impedance	10K Ohm
Connector	3.5mm Stereo Mini Female
VIDEO	
Format	DVI-D Single Link
Maximum Pixel Clock	165 MHz
Input Interface (TX)	(4) DVI-D 29-pin female
Output Interface (RX)	(4) DVI-D 29-pin female
Resolution	Up to 1920 x 1200 @60Hz
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.

USB	
Signal Type	USB 1.1
Input Interface (TX)	(1) USB Type B (Female)
Output Interface (RX)	(2) USB Type A (Female) Keyboard/Mouse
OTHER	
RS-232	Data up to 115,000bps
Fiber Extender	Fiber • 225m @ Singlemode 62,5µ • 450m @ Singlemode 50µ Fiber-Plug type LC
Power	Internal 110-240 VAC
Dimensions	17 in W x 1.70 in H x 7 in D
Weight	8 lb
Operating Temp.	0-55 °C (32-131°F)
Storage Temp.	-20-85 °C (-4-185 °F)
Humidity	Up to 95%

ORDERING INFORMATION	
Part No.	Description
FDX-S4US	Point to Point Quad DVI-D, USB Keyboard & Mouse, Audio and RS232 Single-mode Fiber Extender. Includes: [FDX-TX4SU, FDX-RX4SU, 2 X (CCPWR06USA)]

Many leading companies have recognized and embraced the innovation of SmartAVI's technologies and have successfully incorporated them into their organizations. Clients of SmartAVI include:

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SMART AUDIO VIDEO INNOVATION