

# FDX-AV

## FIBER OPTICS

EXTENDERS  
DIGITAL  
SIGNAGE



### FDX-AV is a Powerful Fiber Optic Digital Signage and Multimedia Signal Extender that Transmits Stereo Audio, DVI-D and RS-232 Data up to 1,400 Feet

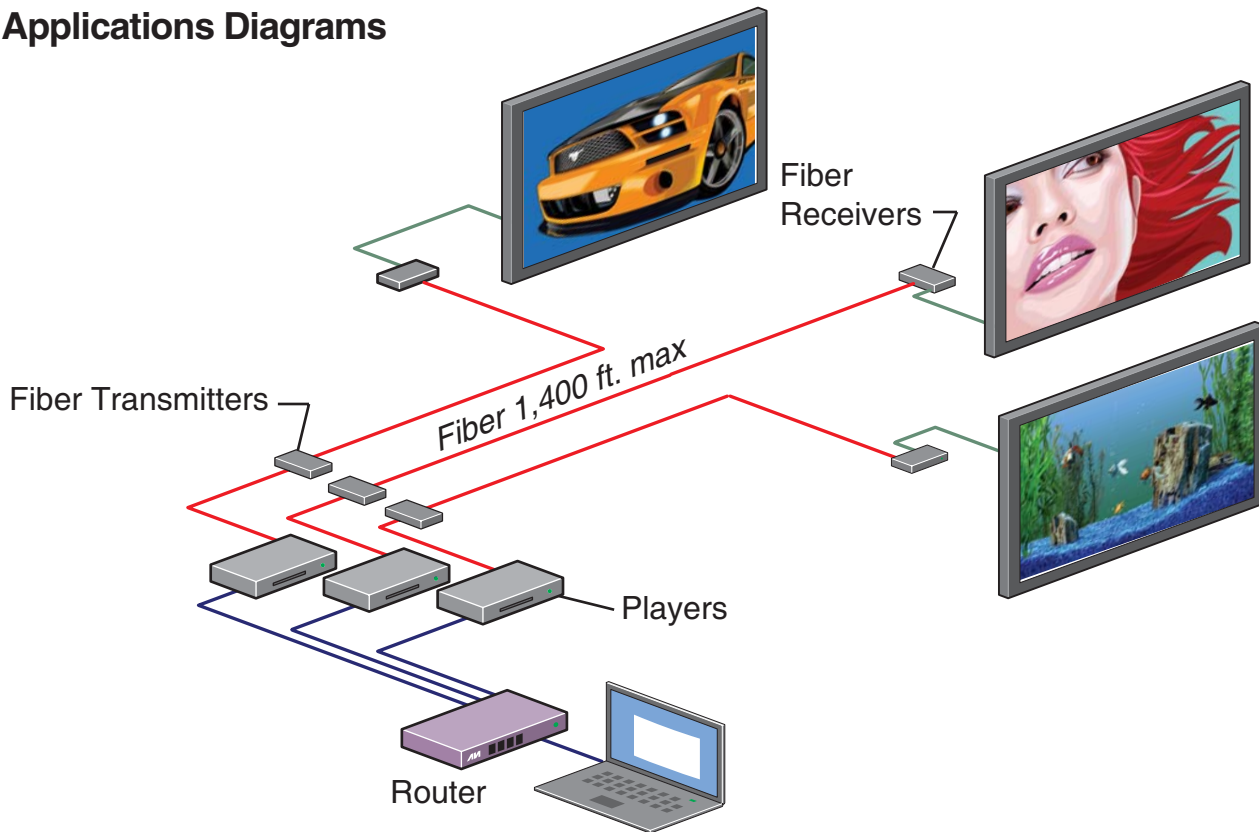
The FDX-AV consists of both transmitter and receiver units, which enable long-distance, superior signal extension quality of DVI-D, stereo audio and RS-232 components. Equipped with DVI-D connectors for multi-mode signals, this product is the perfect fiber solution for professional digital signage and multimedia presentation needs.

The maximum extension range from the source component to the digital display is 1,400 feet using multi-mode fiber.

#### Features

- Top Signal Quality at Maximum Extension Over Multimode Fiber (1,400 ft.)
- Superior Image Quality at all Resolutions
- Video Resolutions up to 1920 x 1200 at 60Hz (1280 x 1024 at 75Hz)
- Customizable/Programmable DDC Table
- Supports Stereo Audio
- Supports DVI-D
- Supports RS-232 Control from 300bps to 19,200bps
- Fiber Plug Type LC
- Compatible With all Operating Systems
- Compact Metal Casing

## Applications Diagrams



## Applications

- Corporate or Educational Presentations
- Information Terminals/Kiosks
- Airport Installations (Air Traffic Control/Passenger Information)
- Sports Arenas or Public Facilities
- Restaurants and Lounges
- Resorts and Casinos
- Houses of Worship
- Theme Park Design
- Civic Centers
- Shopping Malls
- Concerts or any Large-Scale Multimedia Venue
- Mass-Transit Vehicles
- Convention Centers



## Why Fiber Optics?

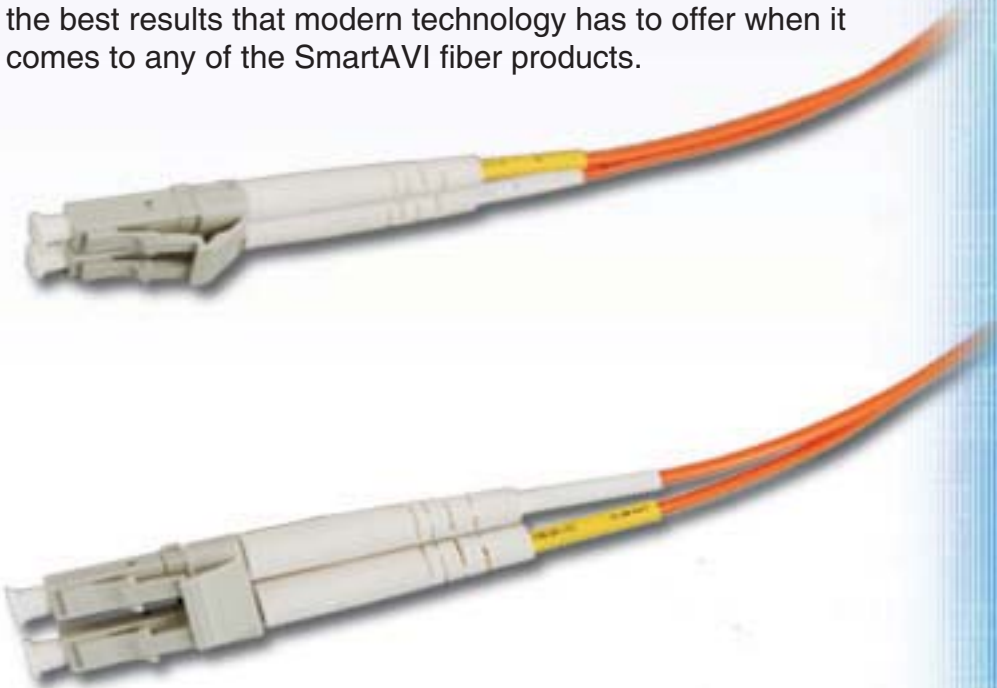
Fiber optics have been used for years in communications and is emerging with new technologies as the most solid and cost-effective medium of transmitting signals over a “hard line” network of computers, digital signage monitors or audio/visual components. SmartAVI has long incorporated fiber in its line of extender products, understanding that this technology is both cutting-edge and becoming mainstream.

A fiber optic transmits light along its length and can be glass or plastic. The light is kept at the core of the fibers by internal reflection, causing them to act as waveguides for the signals being transmitted at a very high velocity; the “speed of light”.

Fibers are used as opposed to metal wires, because there is less quality loss; the fibers are also immune to electromagnetic interference, such as various electrical circuits, or even natural causes such as magnetic waves from the sun or the Northern Lights.

In addition to being immune from natural interferences, fibers are also much more secure than traditional metal lines, as they are far more difficult to physically hack into. This is why SmartAVI has incorporated fiber technology in projects with military and law enforcement entities extensively throughout their communications networks.

In using fiber optics as the method of signal delivery, we can expect the highest quality of signal transferred via hard line and end users in turn, should also know that they are getting the best results that modern technology has to offer when it comes to any of the SmartAVI fiber products.





## SPECIFICATIONS

### Systems:

Windows 2000, XP and 2003 and Linux

### Video Interface

DVI-D female  
Single link  
Resolution: 1920 x 1200 @ 60 Hz  
DDC internal table can be reprogrammed

### RS232

RS232 Data up to 57,600  
DB9  
Support TXD, RXD, GND

### Audio

Signal Type Stereo Audio  
Bandwidth 15MHz, 0dB  
Impedance 100 Ohm  
Connector 3.5mm mini jack, Female

Compatible with all operating systems  
Rack Mount options (19"): available

### Dimensions (Inches)

**Power Supply** 110/240 -5VDC-3A

### Fiber

- 225m @ Multimode 62,5μ
  - 450m @ Multimode 50μ
- Fibre-Plug type LC

## ORDER INFO

### Model

### Description

FDX-AV Point-to-point DVI-D, Stereo Audio and RS-232 fiber extender . Includes: [FDX-TXAV, FDX-RXAV, 2 x (PS5V3A)]



Many industry leaders have already embraced SmartAVI's advanced technology and have eagerly implemented our products throughout their organizations. Such companies include:



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