



BROADCAST PERFECTION

## Meet Fiberlink:

Fiberlink® is the most extensive collection of all-digital fiber optic transmission systems from any manufacturer. Fiberlink offers products that support nearly every type of video, audio and data signal. Completing our line of transmission systems are our multiplexers for transmitting multiple signals over a single fiber optic core and our optical distribution amplifiers that provide point-to-multipoint signal distribution.

Fiberlink® makes solutions practical and affordable.

Fiberlink is a truly plug-n-play system. No Fiberlink model requires any special tools, adjustments, equalization or deskewing during installation.

Fiberlink offers unbeatable performance and simplicity at a very affordable price

Fiberlink moves your signals digitally using light, not electricity, so your signal is immune to interference, ground-loops, EMI – virtually every prohibitive characteristic of copper is eliminated!

Fiberlink can send your signals farther and with greater signal fidelity

Multiple signals and signal types can be multiplexed over a single fiber optic core with no distortion or equalization and deskewing


Fiber is very affordable and can be purchased for less than Cat 5 in most cases

Fiber can be easily terminated on-site

Fiber is thinner, more flexible and stronger than coax, Cat 5, Cat 6 and twisted pair and stands up to greater abuse

Fiberlink offers complex point-to-multipoint and drop-and-repeat capabilities making it easy to take advantage of Fiberlink's benefits in any Pro A/V application.


### Product Features Legend


 Supports Video

 Supports Audio

 Supports RS Type Data and/or Ethernet

 Supports Single Mode Fiber

 Supports Multimode Fiber

 Universal Power Supply

# Optical Matrix

## Fiberlink® OM32 Optical Matrix Series



### Fully Configurable 32x32 Optical Matrix

- Inputs & Outputs can be ordered in quantities of one, up to 32x32
- Input & Output quantities do not have to match
- SMPTE 297-2006 Compliant
- Supports up to 3G-SDI Data Rates
- Redundant Power Supplies
- RS-232 & Ethernet Controllable
- Create, Store & Recall Presets; transfer presets with USB
- Only 3RU High



The following CSI products are compatible with Fiberlink® Matrix when operating at the 1100 - 1620 nanometer range:

Scan Do® HD - 1297	Scan Do® HD - 1298		
3150 Series	335x Series	3360 Series	3400 Series
3440 Series	3620 Series	4040 Series	4160 Series
4320 Series	5100 Series (2 Fiber)	7030 Series	7040 Series
7050 Series	7060 Series	7070 Series	7100 Series
7130 Series	7140 Series	722x Series	7242 Series
7250 Series	7820 Series	8000 Series	8100 Series
Flex Series (1 Way & 2 Fiber for bi-directionality)			

### Product Features Legend

- BOX** Available in Box Versions
- CRD** Available in Rackmountable Card Versions
- 1F** Uses One Fiber Cable
- 2F** Uses Two Fiber Cables
- 1/2F** Uses One or Two Fiber Cables
- NA** No Adjustments, Equalization or Deskewing

## RGB & Audio

### Fiberlink® 7220 Series



#### RGBHV and Stereo Audio Transmission

- Transmits over one fiber in point-to-point, point-to-multipoint, and drop-and-repeat configurations
- VGA, SVGA, XGA, and WXGA (up to 1368 x 768)
- Supports HDTV resolutions of 480p, 720p, and 1080i (RGBHV Format Only)
- 20Hz - 20kHz audio frequency response
- Digital transmission with no compression or pixel skewing

### Fiberlink® 7240 Series



#### RGBHV, Stereo Audio, Ethernet and Two-Way Data Transmission

- Same video and audio specifications as the 7220 Series
- 10-Base-T support enables communication between a projector or other Local Area Network (LAN) enabled device and a LAN Server
- Bi-directional data channel supports RS-232, RS-422 and RS-485 protocols

### Fiberlink® 7250 Series



#### RGBHV and Stereo Audio Transmission

- Supports up to 1920 x 1200 (WUXGA) and HDTV resolutions up to 1080p (RGBHV Format only)

## DVI

### Fiberlink® 7510 Series



#### DVI and Stereo Audio Transmission

- Transmits single link DVI up to 1920 x 1200
- Equalizes and re-clocks DVI input
- Supports HDTV resolutions up to 1080i and 1080p (DVI Format Only)
- Uses no compression, color space conversion, scaling, frame dropping or sync stripping
- Generate EDID internally, passed from the loop-through, or capture and store EDID1
- Dual Optical Output version available<sup>1</sup>

<sup>1</sup> Available on multimode version only

### Product Features Legend

**VID** Supports Video

**AUD** Supports Audio

**DAT** Supports RS Type Data and/or Ethernet

**SM** Supports Single Mode Fiber

**MM** Supports Multimode Fiber

**UPS** Universal Power Supply

## 3G/HD/SD-SDI

### Fiberlink® 3350 Series



#### SMPT E Compliant 3G/HD/SD-SDI Transmission System

- All inputs and outputs are equalized and re-clocked
- Immune to pathological patterns over the entire link budget and operating temperature range
- SMPTE 424M-2006, 292, 259 and DVB-ASI compliant
- Supports embedded audio and data signals

## 3G/HD/SD-SDI to HDMI, DVI, HD Component or VGA

### Fiberlink® 335X Series of Receivers



#### 3G/HD/SD-SDI to HDMI, DVI, HD Component or VGA Family of Receivers

- All inputs and outputs are equalized and re-clocked
- Immune to pathological patterns over the entire link budget and operating temperature range
- Supports embedded audio signals



## 3G/HD/SD-SDI & 4 Pairs AES/EBU Audio

### Fiberlink® 3360 Series



#### 3G/HD/SD-SDI Transmission System with 4 Pairs (8 Channels) of AES/EBU Audio

- Same video specifications as the Fiberlink 3350 Series (Does not support DVB-ASI)
- Can embed up to 4 Pairs (8 Channels) of AES/EBU Digital Audio
- Receiver provides ability to de-embed audio signals

## 3G/HD/SD-SDI & Data

### Fiberlink® 3370 Series



#### 3G/HD/SD-SDI Transmission System with RS-Type Data and 10/100 Base-T Ethernet

- Same video specifications as the Fiberlink 3350 Series (Does not support DVB-ASI)
- Transmit 10/100 Base-T Ethernet & two channels of RS-Type data
- Previously serialized audio that is present in SDI stream is left intact
- Operates with one single mode fiber



### Product Features Legend

- |  |   |
|--|---|
| Available in Box Versions                | Uses Two Fiber Cables                     |
| Available in Rackmountable Card Versions | Uses One or Two Fiber Cables              |
| Uses One Fiber Cable                     | No Adjustments, Equalization or Deskewing |

## Composite Video

### Fiberlink® 7100 Series



#### Wideband Composite Video

- 15 Mhz Video Bandwidth
- Supports all video formats; NTSC/PAL/SECAM
- Signal-to-noise ratio: > 67dB per RS-250C

### Fiberlink® 3134 Video Multiplexer Series



#### 10 Channel Wideband Composite Video Multiplexer

- Multiplexes up to 10 composite video signals on one fiber
- Full color, uncompressed, real-time transmission in NTSC, PAL or SECAM
- Compatible with multimode or single mode fiber



## Composite Video & Audio

### Fiberlink® 3620 Series



#### Composite Video with 2 Audio Channels

- 10 Mhz Video Bandwidth
- 20Hz - 20kHz audio frequency response
- +10 dBU maximum audio level
- Line level, balanced or unbalanced audio

### Fiberlink® 7130 Series



#### Wideband Composite Video with 4 Audio Channels

- 15 Mhz Video Bandwidth
- 20Hz - 20kHz audio frequency response
- Signal-to-noise ratio: > 67dB per RS-250C
- +24 dBU maximum audio level
- Line level, balanced or unbalanced audio


### Fiberlink® 7140 Series




#### 4 Composite Video Channels with 8 Audio Channels

- 7 Mhz Video Bandwidth
- 20Hz - 20kHz audio frequency response
- +10 dBU maximum audio level
- Line level, balanced or unbalanced audio
- Only 1 RU high with built-in power supply

### Product Features Legend


 Supports Video

 Supports Single Mode Fiber

 Supports Audio

 Supports Multimode Fiber

 Supports RS Type Data and/or Ethernet

 Universal Power Supply

**Fiberlink® 7820 Series**



Transmit three channels of Composite Video along with stereo audio, or HD/SD Component Video along with stereo audio, or S-Video and Composite Video along with stereo audio:

- 30 Mhz Component Video Bandwidth (Supports 1080i & 720p)
- 15 Mhz Composite and S-Video bandwidth per channel
- Compatible with NTSC, PAL or SECAM video standards
- Switch selectable Audio Boost (+6dB)
- User-configured for balanced or unbalanced inputs and outputs



## Composite Video, Audio & Data

**Fiberlink® Flex Series**



The Fiberlink® Flex System is an all digital, custom-configurable fiber optic link with the capability to transmit any or all of the following:

- One channel of Composite Video in one or two directions
- Four independent audio channels (four-one way or two bi-directional), line level, balanced or unbalanced
- Either two channels of bi-directional data, two channels of bi-directional contact closure or one channel of each
- All digital processing ensures uniform signal over entire transmission distance

## Composite Video & Data

**Fiberlink® 3800 Series**



1 Composite Video Channel with Two-Way Data

- 8 Mhz Video Bandwidth
- Supports all video formats; NTSC/PAL/SECAM and most duplex or simplex PTZ systems
- Data protocol can be different or same on the transmitting and receiving ends

## S-Video & Audio

**Fiberlink® 7820 Series**



Transmit S-Video and Composite Video along with stereo audio or three channels of Composite Video along with stereo audio, or HD/SD Component Video along with stereo audio:

- 30 Mhz Component Video Bandwidth (Supports 1080i & 720p)
- 15 Mhz Composite and S-Video bandwidth per channel
- Compatible with NTSC, PAL or SECAM video standards
- Switch selectable Audio Boost (+6dB)
- User-configured for balanced or unbalanced inputs and outputs



**Product Features Legend**

- BOX** Available in Box Versions
- CRD** Available in Rackmountable Card Versions
- 1F** Uses One Fiber Cable
- 2F** Uses Two Fiber Cables
- 1/2F** Uses One or Two Fiber Cables
- NA** No Adjustments, Equalization or Deskewing

## HD/SD Component Video & Audio

### Fiberlink® 7820 Series



Transmit S-Video and Composite Video along with stereo audio or three channels of Composite Video along with stereo audio, or HD/SD Component Video along with stereo audio:

- 30 Mhz Component Video Bandwidth (Supports 1080i & 720p)
- 15 Mhz Composite and S-Video bandwidth per channel
- Compatible with NTSC, PAL or SECAM video standards
- Switch selectable Audio Boost (+6dB)
- User-configured for balanced or unbalanced inputs and outputs



## Professional Audio

### Fiberlink® 4040 Series



#### 4 Audio Channels

- 20Hz - 20kHz audio frequency response
- +24 dBu maximum audio level
- Line level, balanced or unbalanced

### Fiberlink® 4160 Series



#### 16 Audio Channels

- 20Hz - 20kHz audio frequency response
- +24 dBu maximum audio level
- Optional redundant optical input/output
- Line level, balanced or unbalanced
- Only 1 RU high with built-in power supply

### Fiberlink® 4320 Series



#### 32 Audio Channels


- Same specification as the 4160 Series, but it supports 32 channels of audio

### Product Features Legend

 Supports Video

 Supports Single Mode Fiber

 Supports Audio

 Supports Multimode Fiber

 Supports RS Type Data and/or Ethernet

 Universal Power Supply

# Data

## Fiberlink® 5002 Series



### RS-232 Data Transceiver

- RS-232 over 3 km of Multimode fiber
- Up to 120 kbps
- Small, compact size

## Fiberlink® 5012/5018Series



### Universal Data Transceiver

- Supports RS-232/422/485 (2 wire or 4 wire)
- Single or mixed protocol operation

## Fiberlink® 5100 Series



### Ethernet Transceiver

- Supports 10/100/1000 Ethernet Full or Half Duplex
- Support Single mode & Multimode; 1 or 2 fibers

# Optical Distribution

## Fiberlink® 8000 Series



### Point-to-multipoint optical signal distribution with no baseband signal degradation

- Configurable for 1, 2, 3 or 4 optical outputs
- Works with most one-way Fiberlink® Transmission Systems
- Supports 850nm, 1310nm or 1510nm
- Inputs and Outputs can be configured separately

## Fiberlink® 8100 Series



### Point-to-multipoint optical signal distribution with no baseband signal degradation

- Configurable for 2, 4, 6, 8, 10, or 12 optical outputs
- Works with most one-way Fiberlink® Transmission Systems
- Supports 850nm, 1310nm or 1510nm
- Wavelengths and Fiber Types specified in groups of two

## Product Features Legend

- |  |   |
|--|---|
| Available in Box Versions                | Uses Two Fiber Cables                     |
| Available in Rackmountable Card Versions | Uses One or Two Fiber Cables              |
| Uses One Fiber Cable                     | No Adjustments, Equalization or Deskewing |

## Optical Splitters, CWDMs & WDMs

### Fiberlink® 6500 Series



#### Optically Split 1 Way Transmission

- 1x2 or 1x4 optical splitting available
- Multimode & single mode versions available

### Fiberlink® 6400 CWDM Series



#### Passive Optical Coarse Wave Division Multiplexers

- Combine 4, 8 or 16 optical signals at different wavelengths onto one fiber
- Signals can be sent in same or opposite directions with no configuration
- Does not require any power



### Fiberlink® 6400 WDM Series



#### Passive Optical Wave Division Multiplexers

- Combine two optical signals at different wavelengths onto one fiber
- Two signals can be sent in same or opposite directions
- Multimode & single mode versions available

## Rack Systems & Rack Accessories

### Fiberlink® 6000A Series

#### Card Cage Enclosure for Fiberlink® Card Modules

- 19" Wide x 5.25" High (3 RU)
- Accepts any combination of up to 20 compatible units
- Optional single and multiple position blank filler panels available

### Fiberlink® 6010A Series

#### Universal Switching Power Supply for 6000A Card Cage

- Occupies three positions in the 6000A Card Cage
- Powers any combination of card cage mounted transmission modules
- One or more additional units may be used for redundant operation

### Fiberlink® 6020A Series

#### Alarm Sensing Module for 6000A Card Cage

- Senses fault condition on any transmission module
- Blinking LED & pulsing noise indicate a problem
- Activates a set of isolated contacts which may be wired to a remote location
- Senses signal loss, broken fibers, loss of primary and/or redundant power

### Product Features Legend

**VID** Supports Video

**AUD** Supports Audio

**DAT** Supports RS Type Data and/or Ethernet

**SM** Supports Single Mode Fiber

**MM** Supports Multimode Fiber

**UPS** Universal Power Supply

## Accessories

### Fiberlink® 6202 Field Termination Kit



#### Easy-to-use Fiber Optic Cable Termination Kit

- Includes all the tools necessary for termination
- Includes Quick Reference Guide and Training Video
- Convenient carrying case

### Fiberlink® 6610 Visible Light Source



#### Provides a visible 650 nm laser output that can be used for identifying fiber breaks

- Works with single mode and multimode fiber
- Provides output via an FC connector; jumper cables, ST or SC adaptors may be used
- Two AA batteries provide up to 30 hours of operating power

### Fiberlink® 6615 Optical Power Meter



#### Measures the power of optical signals at 850, 980, 1310 and 1550 nm wavelengths

- Works with single mode and multimode fiber
- Provides output via an FC connector; jumper cables, ST or SC adaptors may be used
- Two AA batteries provide up to 30 hours of operating power
- Gain and loss are accurately measured from -50 to +10 dBm

### Fiberlink® 6620 Three Wavelength Light Source

#### Laser output at wavelengths of 1310 and 1550 nm and VCSEL output at 850 nm



- Operates with either single mode or multimode fiber
- Provides output via ST connectors; jumper cables or ST/FC adaptors may be used
- An 8.4-volt rechargeable battery provides up to four hours of operating power
- A standard, non-rechargeable 9-volt may also be used

## Product Features Legend

**BOX** Available in Box Versions

**CRD** Available in Rackmountable Card Versions

**1F** Uses One Fiber Cable

**2F** Uses Two Fiber Cables

**1/2F** Uses One or Two Fiber Cables

**NA** No Adjustments, Equalization or Deskewing



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