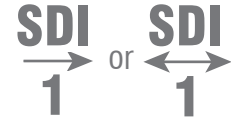




# 1000E

Fiber Optic Serial Digital Video Transport Systems



**“SMPTE-259M SDI Link with options to support embedded digital/analog audio and analog video conversion”**



**“High performance and affordable solutions for your broadcast serial digital video transmission.”**

### Applications

Cost Effective Remote SMPTE-259M SDI Digital Video Transport

ENG/EFP Serial Digital Video Transmission

Tape Deck to Digital Video Tape Transmission

Pre-production and Post-production Serial Digital Video Links

The 1000E Series is a high performance, yet affordable, Fiber Optic Serial Digital Video Transport System that is designed to carry one (1) SMPTE-259M SDI channel, over long distances through either singlemode or multimode fiber. Many versions of optical transmitter and receiver combinations are available to address different distance requirements.

No user adjustments are required in the 1000E system due to the use of advanced digital fiber optic transmission technology. This allows for a quick and easy setup, offering trouble-free operation for many years to come. The 1000E receivers provide for two serial video distribution channels and the 1000E transmitters have a loop-through serial video port.

### Features

Video Pathological Test Code Compliant

1 Fiber Solution also Available (WDM)

CWDM Optics Available

Dual TX/RX Packaging Options

DVB-ASI and ATSC Option Available

The 1000E is available in two packaging options: a rugged, standalone unit housed in a compact case, or a plug-in card for our card cage system. Panel connectors are provided for the digital serial video (BNC connector) and fiber connectors (FC-type for the singlemode version, or ST-type for the multimode version). The 1000E is easily monitored by front panel LED indicators for power, optical link, and channel activity.

The 1000E design is capable of addressing a variety of non-standard configurations, available upon request. To order a customized version or OEM/private brand name, contact Broaddata Communications at 1-800-214-0222 for further information.



Doing More With One Fiber



# 1000E

Fiber Optic Serial Digital Video Transport Systems

## Broadcast Transmission Systems



### Digital Audio

Signal Format	SMPTE-259M Serial Digital Video
Signal Resolution	10 bits
Data Rate	143 Mbps to 540 Mbps
Signal Level	800mVp-p +/- 10%
Return Loss	> 15dB
Connector	75 Ohm BNC
Number of Input Video Loop-Through	1
Number of Video Output	2

### 1000E Edge Support\*

Audio	Embedded or De-embedded Digital/Analog Audio
Video Conversion	Analog Composite/Component Video Conversion

\*Please refer to 1000E-Edge data sheet for detailed technical specifications.

### Physical

Dimension (H x W x D)	
Standalone 1000	1.72" x 4.36" x 6.9"
Card-cage plug-in card	5.24" x 0.94" x 11.6"
Power Level	+12 VDC @ 1A
Operating Temperature	0 to +50°C
Humidity	0 to 95% RH, non-condensing
Status Indicators	Power, Optical Link, Video Activity

### Optical

Fiber Type	Multimode and Singlemode
Number of Fibers	2 or 1
Wavelength	1310 and/or 1550 nm
Fiber Optic Connector	ST (Multimode) FC (Singlemode)

### Optical

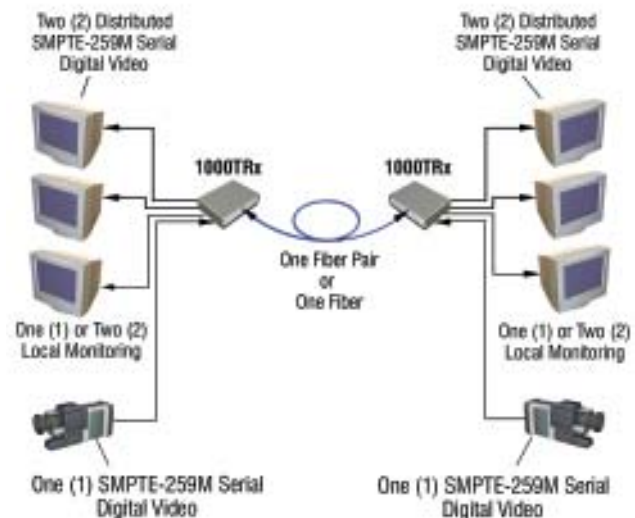
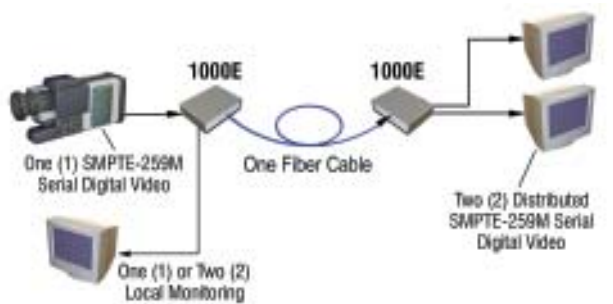
#### Typical Power Budget and Transmission Distance

Application	Power Budget (1)	Typical Distance KM (2)	Typical Distance Miles (2)
Multimode Fiber	18	3	2
Singlemode Fiber	18	30	19
Singlemode Long Distance	22	60	38

(1) These are typical values for the 1000E Series. The actual values may vary.

(2) These are typical distance coverage figures. The maximum distance coverage may be greater than these typical numbers, depending on fiber type, fiber bandwidth, connector splicing losses, chromatic dispersion, environmental factors, etc.

### Applications



### Doing More With One Fiber

Subject to continued product enhancement, we reserve the right to change the above specifications and description without notice.

