



1600

**Multi-Channel Fiber Optic
SDI Transport Systems**

SDI → **4** or **SDI (WDM/CWDM)** → **8 to 64**

**“Multiple Channel
SDI
Over ONE Fiber”**



**“High performance and affordable solutions for your
multi-channel video/audio/data transmission.”**

Applications

Cost Effective Remote SMPTE-259M
SDV 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

Features

Up to 4 SDI (TDM)
Up to 8-64 SDI (WDM/CWDM)

CWDM Optics Available

DVB-ASI Option Available

The 1600 systems provide simultaneous transmission of up to 4 channels of SDI over one fiber. Employed with WDM or CWDM, the 1600 can be expanded to deliver 8 to 64 SDI channels over one fiber. Many versions of optical transmitter and receiver combinations are available to address different distance coverages.

No user adjustments are required in the 1600 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 1600 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 serial digital video (BNC connector) and fiber connectors (FC-type for the singlemode version, or ST-type for the multimode version). The 1600 is easily monitored by front panel LED indicators for power, optical link, and channel activity.

The 1600 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 Broadata Communications at 1-800-214-0222 for further information.



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Broadcast Transmission Systems



Electrical

Signal Format	SMPTE-259M Serial Digital Video
Signal Resolution	10 bits
Data Rate	270 Mb/s
Signal Level	800mVp-p +/- 10%
Return Loss	> 15dB
Connector	75 Ohm BNC

Physical

Dimension (H x W x D)	
Standalone 1600	1.72" x 8.58" x 12"
Card-cage plug-in card	5.24" x 0.94" x 11.6"
Power Level	110-240 VAC
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	1 (Unidirectional) 2 (Bi-directional)
Wavelength	1310 and/or 1550 nm
Fiber Optic Connector	ST (Multimode) FC (Singlemode)

Optical

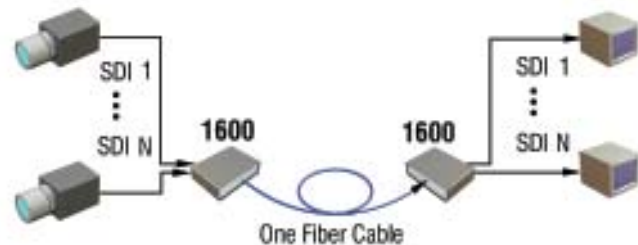
Typical Power Budget and Transmission Distance

Application	Power Budget (1)	Typical Distance KM (2)	Typical Distance Miles (2)
Multimode Fiber	8	1	0.6
Singlemode Fiber	12	25	16
Multimode Long Distance	12	3	1.8
Singlemode Long Distance	20	60	37

(1) These are typical values for the 1600 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 *plus*

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

