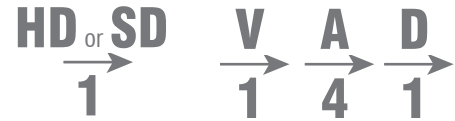




1500

Digital Fiber Optic 250C Short Haul Analog Video Transport System with SDV or HDTV Digital Video



“Broadcast Analog Video/Audio and Digital Serial Video/Audio”



“High performance and affordable solutions for your broadcast analog to digital video transmission.”

Applications

- Remote Studio to Transmitter Link
- Broadcast Analog/Digital Video Distribution
- Pre-production and Post-production Mixed Analog/Digital Video Links

Features

- Simultaneously Transport 250C Short Haul Analog and SMPTE Digital Video
- Cost Effective Solution for Simultaneous Analog and Digital Video Feeds
- Reliable Transmission Over Multimode or Singlemode Fiber
- DVB-ASI Option Available

1 Fiber Solution

The 1500 Series is a high performance, yet affordable, Fiber Optic 250C Short Haul Analog Video Transport System with SDV/HDTV Digital Video. The standard 1500 system is designed to transport one broadcast quality 250C analog video channel, four professional grade analog audio channels, and/or one RS-232 (or RS-422) channel, as well as one SMPTE-259M (SDV) or SMPTE-292M (HDTV) serial digital video signal, over long distance through either singlemode or multimode fiber. Many versions of optical transmitter and receiver combinations are available to address different distance requirements.

Due to the use of advanced digital fiber optic transmission technology, the quality of analog video, audio and data transmission is superior to the analog counterparts. No user adjustments are required in the 1500 system, enabling quick setup and trouble-free operation.

The 1500 comes with a rugged, standalone, rackmountable unit. Panel connectors are provided for analog baseband video (BNC connector), analog stereo audio (terminal block), RS-232/RS-422 data (DB9 connector), SDV/HDTV digital video (BNC connector), and fiber connection (FC-type for the singlemode version or ST-type for the multimode version). The 1500 can be easily monitored by front panel LED indicators for power, optical link, and channel activity.

The 1500 design is capable of addressing a variety of non-standard configurations. Contact us to discuss your custom, OEM/private brand and high volume requirements.



Doing More With One Fiber



1500

Broadcast Transmission Systems



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Video

Channel Capacity	1
Signal Resolution	10/12 bits digitized
Video Standard	525/625 lines
Bandwidth	10MHz
Video Level	1.0 Vp-p @ 75 Ohms
Differential Gain	<1.0%
Differential Phase	<0.5°
SNR (Weighted)	>70dB
Connector	BNC, 75 Ohms

Audio

Channel Capacity	4
Operating Mode	Balanced or Unbalanced
Signal Resolution	24 bits
Input/Output Impedance	600/600 Ohms (Balanced)
Max. Input/Output Level	+18dBm@ 600 Ohms (Balanced)
Magnitude Freq. Response	20Hz to 20kHz @ -1dB
SNR (Weighted)	>80dB @ 1kHz @ +10 dBm Input Level (Balanced)
Connector	Terminal Block

Serial Data

Channel Capacity	1
Signal Format	RS-232 or RS-422
Operating Mode	Full Duplex with Handshake
Data Rate	Up to 128kbps (RS-232) Up to 1 Mbps (RS-422)
Connector	DB-9

SDV/HDTV Digital Video

Channel Capacity	1
Signal Format	SMPTE-259M/292M
Data Rate	270/1485 Mb/s
Signal Level	800mVp-p +/- 10%
Input/Output Impedance	75 Ohms
Connector	BNC

Physical

Dimension: (H x W x D)	
Standalone Module	1.72" x 17.03" x 12.00"

Physical (continued)

Power Level	95-240 VAC @ 3.0 A
Operating Temperature	0 to +50°C
Humidity	0 to 95% RH, non-condensing
Status Indicators	Power, Optical Link, Channel Activity

Optical

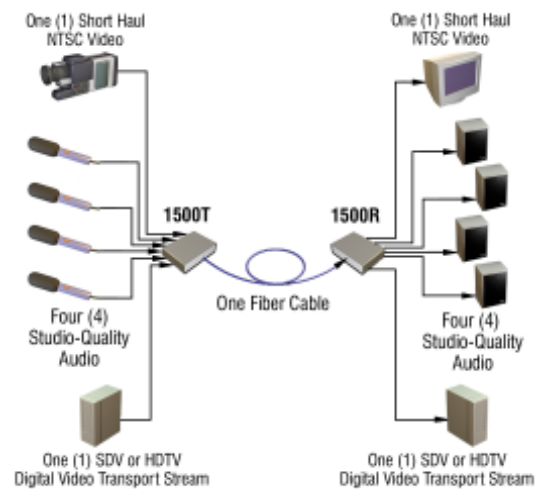
Fiber Type	Multimode and Singlemode
Number of Fibers	2 or 1
Wavelength	1310 and/or 1550 nm
Fiber Optic Connector	ST (Multimode) FC (Singlemode)

Typical Power Budget and Transmission Distance

Application	Power Budget (1)	Typical Distance KM (2)	Typical Distance Miles (2)
Multimode Fiber	6	1	0.6
Singlemode Fiber	12	15	9.3
Singlemode Long Distance	16	30	19

- (1) These are typical values for the 1500 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.

Application



Doing More With One Fiber

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

