



250/260

Broadcast Quality Audio/Video/Data Transport Systems



“250C Short Haul Video”



“High performance and affordable solutions for your broadcast quality analog video/audio/data transmission.”

Applications

- ____ Broadcast Video Distribution
- ____ Studio to Transmitter Link
- ____ Distance Learning

The 250/260 Series is a high performance transmission system capable of carrying simultaneous unidirectional or bi-directional broadcast quality analog video, audio, and/or data transmissions over singlemode or multimode fiber.

Features

- ____ Exceeds 250C Short Haul Video Specifications
- ____ Digital Encoded Fiber Optic Links
- ____ Accommodate up to 2 Video, 4 Audio, and 2 Serial Data Channels
- ____ Compact, Standalone Packaging
- ____ **1 Fiber Solution also Available (WDM)**
- ____ **CWDM Optics Available**

The standard single channel models (250/260) are capable of carrying one broadcast quality analog video, four audio channels (two stereo pairs), and one serial data (RS-232/RS-422) channel. The two channel models (252/262) are capable of carrying two broadcast quality analog video channels, eight audio channels, and two data streams (RS-232/RS-422). The video quality in the 250/260 system meets 250C short haul specifications, while the audio specifications exceed professional standards. The 250/260 requires no user adjustments, thus enabling a quick and easy setup, offering trouble-free operation.

The 250/260 comes in a rugged, standalone version available in a compact unit. Panel connectors are provided for video (BNC), audio (terminal block), data (DB-9), and fiber connections (FC-type for singlemode fiber or ST-type for multimode fiber). They are also easily monitored by separate LED indicators for power, optical link, and channel activity.

Due to its digital transmission design, the 250/260 is capable of addressing a variety of non-standard configurations, available upon request. To order a customized version or OEM/private brand name, contact us at (800) 214-0222, for further information.



Doing More With One Fiber



250/260

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Broadcast Transmission Systems



Video

Channel Capacity	1 (250/260) 2 (252/262)
Signal Resolution	12 Bits Digitized
Video Standard	525/625 Lines
Bandwidth	10MHz
Video Level	1.20Vp-p @ 75 Ohms
Differential Gain	<1.0%
Differential Phase	<0.5°
SNR (Weighted)	>70dB
Connector	BNC, 75 Ohms

Audio

Channel Capacity	4 (250/260) 8 (252/262)
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 @ -1 dB
THD+N	>85dB @ 1kHz
Connector	Terminal Block

Serial Data

Channel Capacity	1 (250/260) 2 (252/262)
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

Physical

Dimension: (H x W x D)	
Standalone 250/260	1.72" x 17.03" x 12.0"
Standalone 252/262	3.46" x 17.03" x 12.0"
Power	95-240 VAC @ 2.4 A
Operating Temperature	0 to +50°C

Physical (continued)

Humidity	0 to 95% RH, Non-condensing
Status Indicators	Power, Optical Link, Video/Audio/Data Activity

Optical

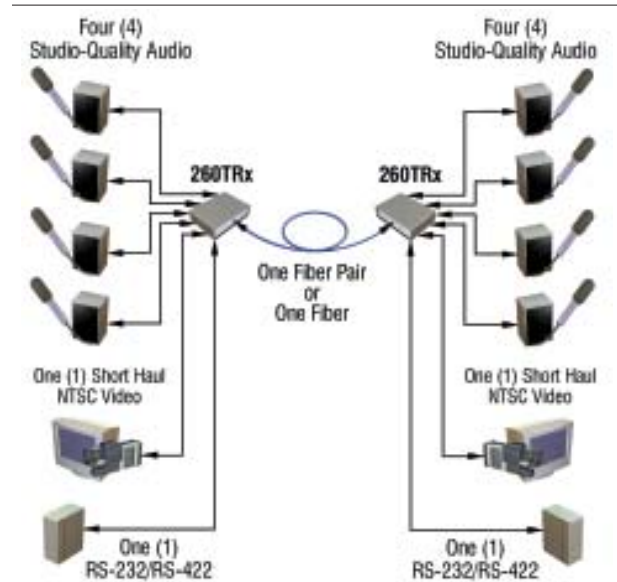
Fiber Type	Multimode and Singlemode
Number of Fibers	2 or 1
Wavelength	850, 1310 and/or 1550 nm
Fiber Optic Connector	ST (Multimode) FC (Singlemode)

Typical Power Budget and Transmission Distance

Application	Power Budget (1)	Typical Distance KM (2)	Typical Distance Miles (2)
Multimode Fiber	8	1	0.6
Singlemode Fiber	14	30	19
Multimode Long Distance	12	3	2
Singlemode Long Distance	19	60	37

- (1) These are typical values for the 250/260 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



Typical Bi-directional Application

Doing More With One Fiber

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

