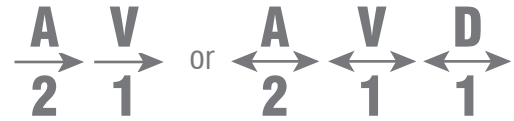




230E/240E

Digital Fiber Optic Video/Audio/Data Transport Systems with More Crisp Video



“250C Medium Haul Video”



“High performance and affordable solutions for your high-end video/audio/data transmission.”

Applications

Medical Imaging

Industrial Machine Vision

Audio/Video/Data Conferencing

Media Retrieval and Distribution

Features

Meets 250C Medium Haul Video Specifications

Digital Encoded Fiber Optic Links

Accommodates up to 1 Video, 2 Audio, and 1 Serial Data Channels

Standalone and Card-cage Packaging

1 Fiber Solution also Available (WDM)

CWDM Optics Available

The 230E/240E system provides simultaneous transmission of digitized stereo audio, video and/or data over one or one pair of fibers. The 230E system transmits two (2) audios (or one (1) stereo audio pair) and one (1) baseband NTSC/PAL video channel in one direction. The 240E system transmits and receives two (2) audios (or one (1) stereo audio pair), one (1) baseband NTSC/PAL video channel, and one (1) serial data (RS-232/RS-422) channel in both directions. The video quality in the 230E/240E system meets 250C medium haul specifications and its audio specifications exceed professional standards. Many versions of optical transmitter and receiver combinations are available to address different distance requirements.

The 230E/240E features a digital fiber optic transmission technology, capable of providing more crisp video, with little or no maintenance, high functional reliability, and low operating cost. The quality of video, audio and data transmission in BC's digital designs is much superior to the analog transmission designs used by other manufacturers (based on amplitude or frequency modulation). No user adjustments are required in the 230E/240E system, enabling quick setup and trouble-free operation.

The 230E/240E comes with two packaging options: a rugged, standalone, and compact unit, or a plug-in card for a card cage system. Panel connectors are provided for video (BNC), audio (terminal block), data (terminal block), and fiber connection (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 230E/240E 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 *plus*



230E/240E

Multimedia Transmission System



Digital Fiber Optic Video/Audio/Data Transport Systems with Crispier Video

Video

Channel Capacity	1
Bandwidth	8 MHz
Video Level	1.0Vp-p @ 75 Ohms
Differential Gain	< 3%
Differential Phase	< 1.0°
SNR (Weighted)	> 65 dB
Connector	BNC

Audio

Channel Capacity	2
Operating Mode	Balanced or Unbalanced
Input/Output Impedance	600/600 Ohms (Balanced)
Max. Input/Output Level	+ 10 dBm @ 600 Ohms (Balanced)
Magnitude Freq. Response	20Hz to 20kHz @ -3 dB
THD+N	> 80 dB @ 1kHz (Balanced)
Connector	Terminal Block

Serial Data

Channel Capacity	1
Signal Format	RS-232 or RS-422 (Factory configurable)
Data Rate	Up to 115.2Kbps
Connector	Terminal Block

Physical

Dimension: (H x W x D)	
Standalone/external power	Unidirectional: 1.72" x 4.36" x 8.75" Bi-directional: 1.72" x 8.60" x 12.0"
Card-cage plug-in card	5.24" x 0.94" x 11.6"
Power	
Standalone/external power	12 VDC @ 1A
Operating Temperature	0 to +50°C
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	1310 and/or 1550 nm
Fiber Optic Connector	ST (Multimode) FC (Singlemode)

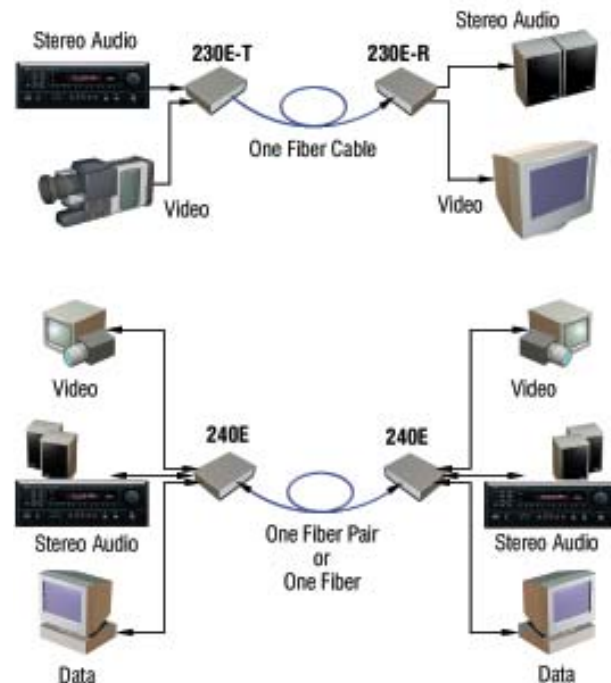
Typical Power Budget and Transmission Distance

Application	Power Budget (1)	Typical Distance KM (2)	Typical Distance Miles (2)
Multimode Fiber	14	3	1.8
Singlemode Fiber	14	25	16
Singlemode Long Distance	18	60	37

(1) These are typical values for the 230E/240E 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



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

