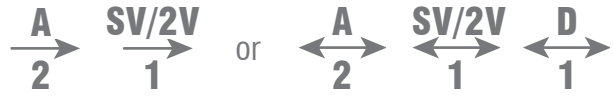
# 235

*Digital Fiber Optic Broadcast-Quality*
*S-Video/Audio/Data Transport Systems*





***"Broadcast Video Quality"***

***"S-Video or***
***2 NTSC/PAL Video"***

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

**Applications**

- Remote Multimedia Studio
- Distance Learning
- Audio/Video/Data Conferencing
- Media Retrieval and Distribution

**Features**

- Digital Encoded Fiber Optic Links
- Exceeding Short-Haul Video Specifications
- Accommodates up to 1 S-Video, 2 Audio, and 1 Serial Data Channels
- Optional for 2 NTSC/PAL Video Transmission
- Standalone and Card-cage Packaging
- ***1 Fiber Solution also Available (WDM)***
- ***CWDM Optics Available***

The 235 system provides simultaneous transmission of digitized S-video, stereo audio, and/or data over one or one pair of fibers. Unidirectional 235 system transmits two (2) audios (or one (1) stereo audio pair) and one (1) baseband S-video channel in one direction. The bi-directional 235 system transmits and receives two (2) audios (or one (1) stereo audio pair), one (1) baseband S-video channel, and one (1) serial data (RS-232/RS-422) channel in both directions. The video and audio quality in the 235 system exceeds professional standards. In addition, the 235 can be configured to transmit two (2) NTSC/PAL video, instead of one (1) S-video. Many versions of optical transmitter and receiver combinations are available to address different distance requirements.

The 235 features a digital fiber optic transmission technology, capable of providing sharp video and crisp audio, with little or no maintenance, high functionality reliability, and low operating cost. The quality of video, audio and data transmission in BCI'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 235 system, enabling quick setup and trouble-free operation.

The 235 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 (DIN and 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 235 is capable of addressing a variety of non-standard configurations. Contact us to discuss your custom, OEM/private brand and high volume requirements.

BROADATA COMMUNICATIONS, INC. DOING MORE WITH ONE FIBER plus

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## Multimedia Transmission System

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### Video

| | |
|---|---|
| Channel Capacity | 1 |
| Bandwidth | 8 MHz |
| Video Level | 1.2Vp-p @ 75 Ohms |
| Differential Gain | <1% |
| Differential Phase | <0.7° |
| SNR (Weighted) | >70dB |
| Connector | S-Video or BNC |

### Audio

| | |
|---|---|
| Channel Capacity | 2 |
| Operating Mode | Balanced or Unbalanced |
| Input/Output Impedance | 600/600 Ohms (Balanced) |
| Max. Input/Output Level | +10dBm @ 600 Ohms (Balanced) |
| Freq. Response | 20 to 20kHz |
| THD+N | >85dB @ 1kHz (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 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 8.6" x 12.0" |
| Card-cage plug-in card | 5.24" x 0.94" x 11.6" |
| Power Standalone/external power | 12VDC @ 1 A |
| Operating Temperature | 0 to +50°C |
| Humidity | 0 to 95% RH, non-condensing |

### Physical (continued)

| | |
|---|---|
| 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) |

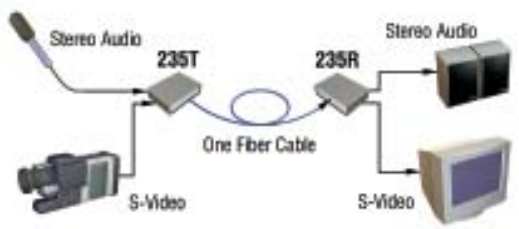
**Typical Power Budget and Transmission Distance**

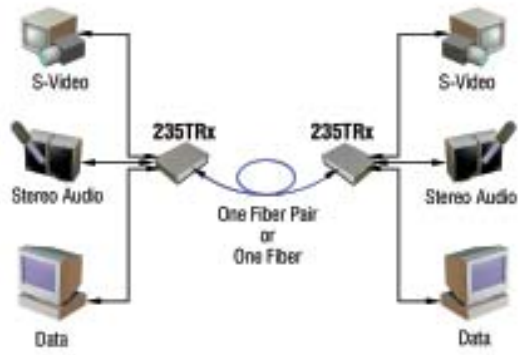
| Application | Power Budget (1) | Typical Distance KM (2) | Typical Distance Miles (2) |
|---|---|---|---|
| Multimode Fiber | 12 | 3 | 1.8 |
| Singlemode Fiber | 12 | 25 | 16 |
| Singlemode Long Distance | 20 | 60 | 37 |

(1) These are typical values for the 235 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.*


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