

- Fiber Transmission Solutions for Distance Learning Applications
- For Classroom, Training Facilities, or Boardroom
- Match Teachers and Students Interactively Over Fiber
- Distribute Live Presentations As Well As Feeds From VCRs or Satellites
- Transparent Transmission Eliminates the Problems of Signal Degradation Caused by RFI, EMI, or Ground Potential Differences.



Video technology has entered academe on a large scale. Today schools (from kindergarten to college) are incorporating electronic classrooms to match teachers and students interactively.

Schools are providing classroom monitors with the means for remotely controlling centrally located video disc players, video cassette recorders/players, and CD-ROM players. They are also able to receive programming via incoming satellite feeds as well as live presentations taking place in school lecture halls or auditoriums to classrooms. See diagram on next page.

To enhance electronic classroom distribution systems, Fiber Options has designed the LearningLink Series. This fiber-optic transmission series enables the system integrator/installer and the consulting engineer/specifier to incorporate fiber transmission into their school system designs. This series also provides fiber transmission solutions for media systems used in corporate board rooms and professional training facilities.

PRODUCT SELECTION HINT	Description	Model No.	Power Factor
The LearningLink can also be configured as a cost effective solution to support a traditional video/audio-follow routing switcher system. The LL101B-T-R and LL101B-R would provide a video and audio fiber-optic link to the classroom. Video with two-channel stereo audio would be obtained using LL102B-T-R and LL102B-R.	Wideband Fiber Transmitter (Mono or Stereo)	LL100B-T-R	1
	Wideband Fiber Receiver (Mono or Stereo)	LL100B-R-R	1
	Video/Audio MUX (Monaural)	LL101B-M-R	3
	Video/Audio MUX (Stereo)	LL102B-M-R	3
	Video/Audio DEMUX (Monaural)	LL101B-DM*	3
	Video/Audio DEMUX (Stereo)	LL102B-DM*	3
	Video/Audio Transmitter (Monaural)	LL101B-T*	3
	Video/Audio Receiver (Monaural)	LL101B-R*	3
	Video/Audio Transmitter (Stereo)	LL102B-T*	3
	Video/Audio Receiver (Stereo)	LL102B-R*	3

* Available in rack cards as well as standalone. When ordering for rack, add -R to the model number shown.

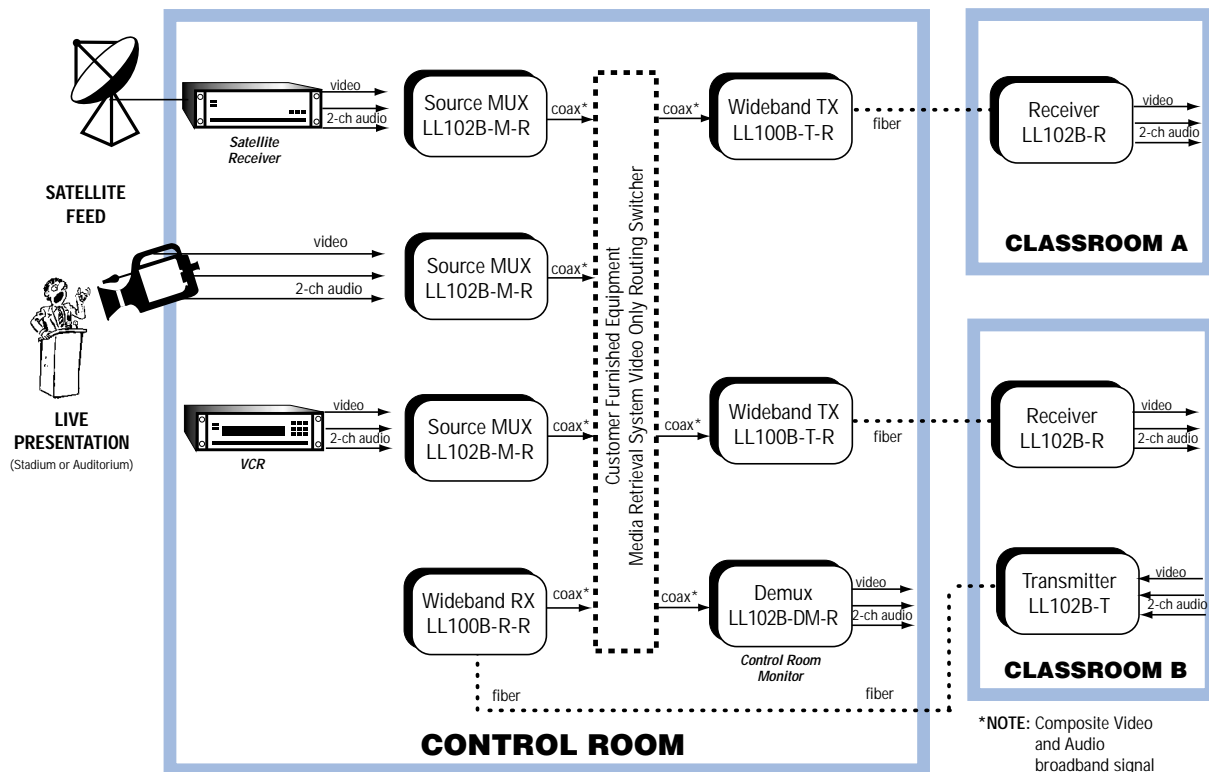
Other Specifications

- Power Requirements : +13.5-16 VDC at 300 mA or 12-16 VAC.
 Options : For standalone use order a 613P AC Adapter, one for each unit.
 Dimensions : Standalone Units: 4.55" W x 7.0" D x 1.1" H (11.6 cm x 17.8 cm x 2.8 cm).
 Rack cards (all) occupy one rack slot.

- One-Way Video and Audio Over a Single Fiber
- Monaural or Stereo Audio
- Source MUX for Video and Audio Routing
- Video Bandwidth 10 Hz to 8 MHz
Audio Bandwidth 20 Hz to 20 kHz
- Multimode Fiber Applications
- Maximum Attenuation 11 dB at 850 nm
- Balanced or Unbalanced 600-Ohm Audio
- Optical AGC Circuitry
- Diagnostic Indicators: Level/Loss, Audio, and Video
- Differential Gain: 3%. Differential Phase: 3°
- Total Harmonic Distortion: <1%
- Signal-to-Noise Ratio for Video or Audio >50 dB
- ST Optical Ports
- Power Factor: PF 3
- Routing Switcher Input/Output Links Furnished as Cards for Rack Mounting in Fiber Options' 515R1 or 517R1/517EPS1 Card Cages. Classroom/Lecture Hall Links Furnished as Standalone Units.

Fiber Options' LearningLink Systems will enable today's electronic classroom systems to operate over fiber-optic cable. The transparent transmission of video and audio over fiber eliminates the problems of signal degradation from RFI and EMI or hum caused by ground potential differences.

The heart of a system includes a routing switcher/media retrieval control system and access to multiple video and audio sources. Providing all of the advantages of fiber, the LearningLink system will allow the user to select any source to be fed into as few or as many classrooms as desired. Depicted below is a typical classroom distribution network using video-only routing switcher.



VIDEO + AUDIO