

**DESCRIPTION**



Radiant Communications VAB710 Series can be ordered as a multimode or Singlemode transmission system. The system is a studio quality video/audio baseband system. The link will transmit one video and two audio signals over very long distances and still meet RS250C Short Haul specifications. The VAB710 Series is a 12 Bit digital transmission system that connects to standard analog NTSC video/audio. Like all Radiant Communications transmission systems, no adjustments are required at time of installation, or anytime thereafter.



**▶ VAB710 Video/2 Audio channels, One way**

**BENEFITS**



Simultaneous Video/ 2 Audios, one way over one fiber

Broadcast quality — RS-250 Short Haul

Transmission distances of 80 km or more

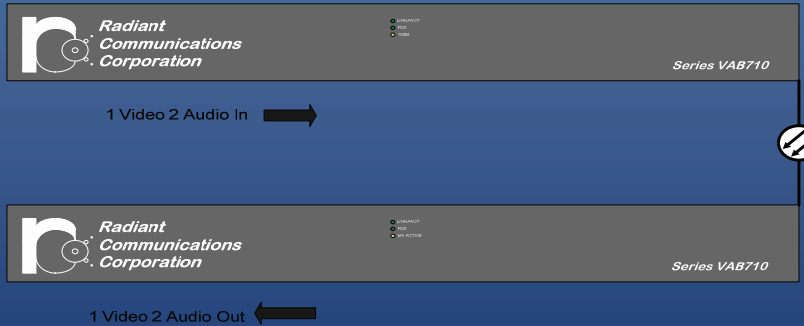
**FEATURES**



Digital Audio/Video Transmission

NTSC/PAL compatible

CWDM and DWDM Versions available



**Radiant  
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# ▶ VAB710 Video/2 Audio Channels, One Way

## SPECIFICATIONS

### RS250 Short Haul Video

12-bit Digitally Encoded Video  
Video Level: 1 Volt peak to peak  
Video Bandwidth: 8 MHz  
SNR/CTN: > 70 dB  
I/O Impedance: 75 Ohms

### Audio

24-bit Digitally Encoded Audio  
Input/Output Signal Level: 0 dB (2V p-p)  
Input/Output Impedance: 10k or 600 Ohms  
Bandwidth: 20 Hz to 24 kHz

### Optical

Wavelength: 850 nm, 1310 nm, 1550 nm,  
Number of Fibers: 1  
Power Budget: see table below

### General Characteristics

Power: 5W @ 90 to 240V AC  
Operating Temp: -20° to 50° C  
Storage Temp: -40 to 85° C  
Size: Rackmount 17.0" W x 13.0" D x 1.75" H  
Can/module 2.8" W x 3.75" D x 1.1" H

## ORDERING INFORMATION

PART NUMBER	DESCRIPTION	ATTENUATION	MAX DISTANCES
VAB710M-T-UY8 VAB710M-R-UY8	Transmitter A/V, Multimode 850 nm Receiver A/V, Multimode 850 nm	10 dB	2 km
VAB710ML-T-UY2 VAB710ML-R-UY2	Transmitter A/V, Multimode 1300 nm Receiver A/V, Multimode 1300 nm	12 dB	8 km
VAB710S-T-UY3 VAB710S-R-UY3	Transmitter A/V, Singlemode 1310 nm Receiver A/V, Singlemode 1310 nm	18 dB	50 km

### Note:

- Specify Y—connector type: A—SC/APC, E—SC, B—FC, Z—FC/APC, D—ST
- Add -48 for 48 VDC power
- For higher optical budgets and distances, 1550 nm versions, CWDM and DWDM systems, contact factory



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