Radiant Communications VAB700 Series can be ordered as a multimode or Singlemode transmission system. The system can transmit distances of up to 140+ km on Singlemode fiber, and 8 km on multimode. The Series is capable of transmitting one way video and audio over one fiber, and can be ordered as a standalone or rack mounted in our CR200 19” x 5.25” rack. Like all Radiant Communications transmission systems, no adjustments are required at time of installation, or anytime thereafter.

**FEATURES**
- Singlemode and Multimode versions available
- NTSC/PAL compatible

**BENEFITS**
- Simultaneous Video/Audio, one way over one fiber
- Broadcast quality — RS-250 Medium Haul
- Transmission distances of 100 km or more
- Analog Audio/Video Transmission

Radiant Communications Corporation

Phone: 908 757 7444  
Fax: 908 757 8666  
E-mail: sales@rccfiber.com  
www.rccfiber.com  
P.O. Box 867  
South Plainfield  
NJ 07080  
USA  
7/2006
## SPECIFICATIONS

### RS250 Medium Haul Video

- **Video Level:** 1 Volt peak to peak
- **Video Bandwidth:** 8 MHz
- **SNR/CTN:** > 60 dB
- **I/O Impedance:** 75 Ohms

### Audio

- **Input/Output Signal Level:** 0dB (2 Volts peak to peak)
- **Input/Output Impedance:** 10 k or 600 Ohms
- **Bandwidth:** 16 kHz

### Optical

- **Wavelength:** 850nm, 1310nm, 1550nm,
- **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
  - Card cage: 2 Slots in CR200 card cage

## ORDERING INFORMATION

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>ATTENUATION</th>
<th>MAX DISTANCES</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAB700M-T-XY8</td>
<td>Transmitter A/V, Multimode 850nm</td>
<td>14dB</td>
<td>4km</td>
</tr>
<tr>
<td>VAB700M-R-XY8</td>
<td>Receiver A/V, Multimode 850nm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VAB700ML-T-XY2</td>
<td>Transmitter A/V, Multimode 1300nm</td>
<td>12dB</td>
<td>8km</td>
</tr>
<tr>
<td>VAB700ML-R-XY2</td>
<td>Receiver A/V, Multimode 1300nm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VAB700S-T-XY3</td>
<td>Transmitter A/V, Singlemode 1310nm</td>
<td>18dB</td>
<td>50km</td>
</tr>
<tr>
<td>VAB700S-R-XY3</td>
<td>Receiver A/V, Singlemode 1310nm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:**
- Specify X—packaging of the unit: U—1U rack mount, M—modular (standalone), R—card cage rack mount
- Specify Y—connector type: A—SC/APC, E—SC, B—FC, Z—FC/APC, D—ST
- Add –48 for 48VDC power
- For higher distances contact factory
- Due to product enhancements, specifications are subject to change without notice.