Radiant Communications VAB740 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 four audio signals over long distances and meet RS250C Short Haul specifications. The VAB740 Series is a 12 Bit digital video and 24 Bit audio 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.

Simultaneous Video/ 4 Audios, one way over one fiber
Broadcast quality — RS-250 Short Haul
Transmission distances of 80 km or more

12 Bit Digital Video/ 24 Bit Audio Transmission
NTSC/PAL compatible
CWDM and DWDM Versions available

Radiant Communications Corporation
P.O. Box 867
South Plainfield
NJ 07080
USA
1/2006
**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

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

### 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**: 17.0" W x 13.0D x 1.75" H

### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>ATTENUATION</th>
<th>MAX DISTANCES</th>
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<td>VAB740M-T-UY8</td>
<td>Transmitter A/V, Multimode 850nm Receiver A/V, Multimode 850nm</td>
<td>10dB</td>
<td>2km</td>
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<td>VAB740M-R-UY8</td>
<td>Transmitter A/V, Multimode 1300nm Receiver A/V, Multimode 1300nm</td>
<td>12dB</td>
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<td>VAB740L-T-UY2</td>
<td>Transmitter A/V, Singlemode 1310nm Receiver A/V, Singlemode 1310nm</td>
<td>18dB</td>
<td>50km</td>
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<td>VAB740L-R-UY2</td>
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<td>VAB740S-R-UY3</td>
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**Note:**
- Specify Y—connector type: A—SC/APC, E—SC, B—FC, Z—FC/APC, D—ST
- Add -48 for 48VDC power
- For higher optical budgets and distances, 1550nm versions, CWDM and DWDM systems, contact factory