

▶ VAB705 Video/2 Audio channels, One way

DESCRIPTION

Radiant Communications VAB705 Series is available in multimode or Singlemode 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 two channels of audio over one fiber, and can be ordered as a standalone module, in a 1U rackmount or rack mounted card cage in our CR200.

Radiant offers two versions of NTSC video quality for fiber transport, 8-bit which the VAB705 uses offering RS-250 medium haul quality featuring greater than 60 db signal to noise quality. Or 12-bit quality with the VAB740 series offering RS-250 short haul quality that has greater than 68 db signal to noise.

Like all Radiant Communications transmission systems, no adjustments are required at time of installation, or anytime thereafter



BENEFITS

▶ Simultaneous Video/ 2 Audios, one way over one fiber

▶ Broadcast quality — RS-250 Medium Haul

▶ Transmission distances of 100 km or more

FEATURES

▶ Digital Audio/Video Transmission

▶ Singlemode and Multimode versions available

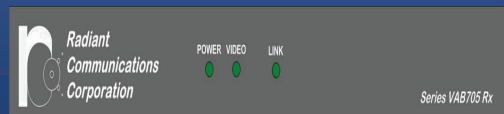
▶ NTSC/PAL compatible

▶ CWDM and DWDM Versions available

1 VIDEO
2 AUDIO



1 VIDEO
2 AUDIO



FIBER



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I/2008

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SPECIFICATIONS

RS250 Medium Haul Video

8-bit Digitaly Encoded Video

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

Audio

18-bit Digitaly Encoded Audio

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

Optical

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

General Characteristics

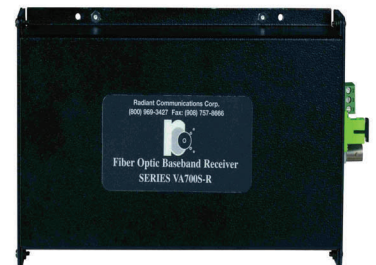
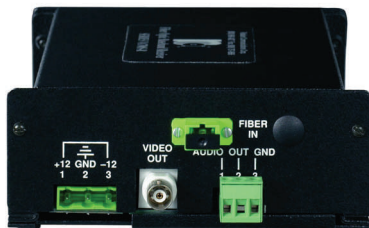
Power: 5W @ 90 to 240V AC
 Operating Temp: -20° to 50° C
 Storage Temp: -40 to 85° C
 Size: rackmount 17.0" W x 13.0" D x 1.75" H
 Can/module 2.8" W x 3.75" D x 1.1" H
 Card cage 2 Slots in CR200 card cage

ORDERING INFORMATION

PART NUMBER	DESCRIPTION	ATTENUATION	MAX DISTANCES
VAB705M-T-XY8 VAB705M-R-XY8	Transmitter A/V, Multimode 850nm Receiver A/V, Multimode 850nm	14dB	4km
VAB705ML-T-XY2 VAB705ML-R-XY2	Transmitter A/V, Multimode 1300nm Receiver A/V, Multimode 1300nm	12dB	8km
VAB705S-T-XY3 VAB705S-R-XY3	Transmitter A/V, Singlemode 1310nm Receiver A/V, Singlemode 1310nm	18dB	50km

Note:

- Specify X—packaging of the unit: U—IU 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
- D= Digital version, analog version available check with factory
- Add -48 for 48VDC power
- CR200 Card Cage available for multiple units or multiple products
- For higher optical budgets and distances, 1550nm versions, CWDM and DWDM systems, contact factory
- Due to product enhancements, specifications are subject to change without notice.



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