

# ▶ VADB905 Video, Audio Two-Way, Data Return

## DESCRIPTION



Radiant Communications VADB905 Series can be ordered as a multimode or singlemode transmission system. The system can operate distances of up to 50 km on singlemode fiber, and 10 km on multimode. The Series is capable of transmitting video one-way, audio two-way, and data return over one or two fibers. The VADB905 Series offers diagnostic indicators for the condition of the video presence on the transmitter and receiver, along with a fiber level information in the receiver. Like all Radiant Communications transmission systems, no adjustments are required at time of installation, or anytime thereafter.

## BENEFITS



Real-Time Video One-Way, Audio Two-Way, and Data Return, Over One or Two Fibers

Multimode Distances up to 10 km

Singlemode Distances up to 50 km

## FEATURES

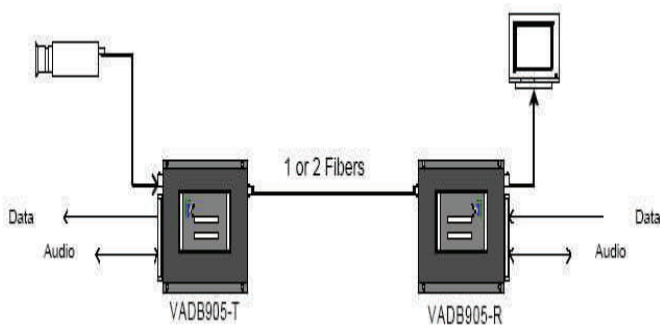


Meets RS-250 Medium Haul Specifications

I Video - one direction

I Audio - both directions

I Data -one direction



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## SPECIFICATIONS

### Video

Bandwidth: 8 MHz  
 SNR/CTN: 60 dB minimum, 64 dB typical  
 I/O Level: 75 Ohms  
 Differential Phase: 1.3°  
 Differential Gain: 2 %

### Audio

Bandwidth: 20 Hz to 16 KHz  
 Input Impedance: 10k Ohms or 600 Ohms (factory preset)  
 Input/Output Signal Level: 0dB (2 Volts peak to peak)  
 Output Impedance: 10k Ohms or 600 Ohms (factory preset)  
 Output Signal Level: +6 dB

### Data

Data Formats: RS-232, RS-422, RS-485, TTL or Bi-Phase / Manchester  
 Connector: RJ45

### Optical

Wavelength: 850nm, 1310nm, 1550, CWDM, DWDM  
 Number of Fibers: 1  
 Optical Connector: SC/APC, SC, ST FC, FC/APC

### General Characteristics

Power: 10W @ 90 to 240V AC  
 Operating Temperature: 0° to 50° C  
 Size: rackmount 17.0" W x 13.0D x 1.75" H  
 Module/can 5.5" W x 7.0" D x 1.3" H  
 Card cage 2 in CR200

## ORDERING INFORMATION

PART NUMBER	DESCRIPTION	ATTENUATION	MAX DISTANCES
VADB905M1-T-XY8	Video, Audio 2 way, Data Transmitter, 1 Fibers, MM, 850/1310 nm	12 dB	0-3 km
VADB905M1-R-XY2	Video, Audio 2 way, Data Receiver, 1 Fibers, MM, 850/1310 nm	12 dB	0-3 km
VADB905M2-T-XY8	Video, Audio Data Transmitter, 1 Fibers, MM, 1310 nm	14 dB	0-10 km
VADB905M2-R-XY8	Video, Audio Data Receiver, 1 Fibers, MM, 1310 nm	14 dB	0-10 km
VADB905S1-T-XY3	Video, Audio 2 way, Data Transmitter, 1 Fiber, SM, 1310 nm	12 dB	0-30 km
VADB905S1-R-XY3	Video, Audio 2 way, Data Receiver, 1 Fiber, SM, 1310 nm	12 dB	0-30 km
VADB905S2-T-XY3	Video, Audio 2 way, Data Transmitter, 2 Fibers, SM, 1310/1550 nm	16 dB	0-50 km
VADB905S2-R-XY3	Video, Audio 2 way, Data Receiver, 2 Fibers, SM, 1310/1550 nm	16 dB	0-50 km

### Note:

- Specify X—packaging of the unit: U—IU rack mount, M—modular (standalone) mount
- Specify Y—connector type: A—SC/APC, E—SC, B—FC, Z—FC/APC, D-ST
- For higher optical budgets and distances, CWDM and DWDM systems, contact factory
- Data—RS232 is standard. Please note on order for other format.
- Due to product enhancements, specifications subject to change without notice.



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