

DESCRIPTION

Radiant Communications VADB920 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 one standard video signal one-way, along with two channels of audio and data, two-way over one or two fibers. The VADB920 Series offers diagnostic indicators for the condition of 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 installa-

VADB920 Video, 2 Channels Audio & Data, Two-Way

BENEFITS

Real-Time Video One-Way and 2 Channels of Audio & Data Two-Way, Over One or Two Fibers

Multimode Distances up to 10 km

Singlemode Distances up to 50 km

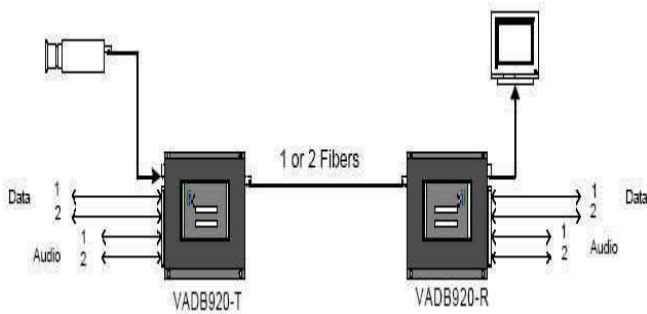
FEATURES

Meets RS-250 Medium Haul Specifications

1 Video Channel - one direction

2 Audio Channels - both directions

2 Data Channels - both directions



**Radiant
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▶ VADB920

SPECIFICATIONS

Video

Bandwidth: 8 MHz
SNR/CTN: 60 dB minimum, 64 dB typical
Input level: 1 volt peak to peak
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 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

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
VADB920M1-T-XY8	Video, 2 Channel Audio & 2 Data channels 2 way, Transceiver, 1 Fibers, MM, 850 nm	12 dB	0-3 km
VADB920M1-R-XY2	Video, 2 Channel Audio & 2 Data channels 2 way, Transceiver, 1 Fibers, MM, 1310 nm	12 dB	0-3 km
VADB920M2-T-XY2	Video, 2 Channel Audio & 2 Data channels 2 way, Transceiver, 1 Fibers, MM, 1310 nm	14 dB	0-10 km
VADB920M2-R-XY2	Video, 2 Channel Audio & 2 Data channels 2 way, Transceiver, 1 Fibers, MM, 1310 nm	14 dB	0-10 km
VADB920S1-T-XY3	Video, 2 Channel Audio & 2 Data channels 2 way, Transceiver, 1 Fiber, SM, 1310 nm	12 dB	0-30 km
VADB920S1-R-XY3	Video, 2 Channel Audio & 2 Data channels 2 way, Transceiver, 1 Fiber, SM, 1310 nm	12 dB	0-30 km
VADB920S2-T-XY3	Video, 2 Channel Audio & 2 Data channels 2 way, Transceiver, 2 Fibers, SM, 1310 nm	18 dB	0-50 km
VADB920S2-R-XY5	Video, 2 Channel Audio & 2 Data channels 2 way, Transceiver, 2 Fibers, SM, 1550 nm	18 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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