

## ▶ DB520M/S RS485 Data, Two-Way

### DESCRIPTION



Radiant Communications DB520 Series can be ordered as a multimode or singlemode transmission system. The system can transmit distances of up to 100+ km on singlemode fiber, and 10 km on multimode. The DB520 Series, which transmits true RS485 full-duplex operation over one or two fibers, 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.

### BENEFITS



Multimode Distances up to 10km

Singlemode Distances up to 100+ km

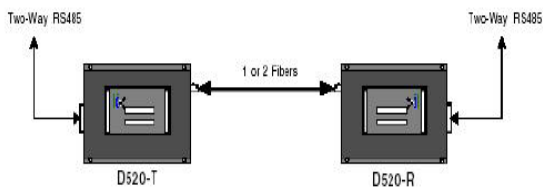
### FEATURES



RS485 Data, Two-Way, Over One or Two Fibers

Diagnostic Indicators

Two Wire or Four Wire Operation



**Radiant  
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Corporation**

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2/2005

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## SPECIFICATIONS

### Data:

Bit error Rate: > 10<sup>-9</sup>, within optical budget  
Data Rate: DC 250k baud maximum

### Data:

6 pin Screw Terminal

### Optical

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

### General Characteristics

Power: 0.4 A @ +12-16 VCC  
Operating Temperature: -20° to 50° C  
Storage Temperature: -40° to 85° C

Size: 17.0" W x 13.0D x 1.75" H  
Module 17.0" W x 13.0D x 1.75" H  
Rack Slots: 1 Fiber—2 in CR200  
2 Fiber—1 in CR200

## ORDERING INFORMATION

PART NUMBER	DESCRIPTION	ATTENUATION	MAX DISTANCES
DB520/M1-XY8	Data Transceiver, 1 Fibers, multimode 850/1310 nm	14 dB	0-4 km
DB520/M2-XY8	Data Transceiver, 2 Fibers, multimode 850 nm	16 dB	0-5 km
DB520/M2L-XY3	Data Transceiver, 2 Fibers, Singlemode 1310 nm	15 dB	0-10 km
DB520/S1-XY3	Data Transceiver, 1 Fibers, Singlemode 1310/1550 nm	14 dB	0-40 km
DB520/S2-XY83	Data Transceiver, 2 Fibers, Singlemode 1310 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



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