

DB550 RS232/RS422/RS485 Data

DESCRIPTION

Radiant Communications DB550 Series can be ordered as multimode or singlemode transmission systems. The system can transmit distances of up to 100+ km on singlemode fiber, and 10 km on multimode.

The DB550 series is capable of transmitting/receiving one (1) channel 3 wire RS232 and either RS422 or RS485 simultaneously.

The DB550 is a cost-effective alternative to long distance coaxial cable for RS232, RS422, RS485 communication applications while assuring high level of signal quality.

The DB550 Series transmits RS232 and RS422 or RS485 over one or two fibers, and can be rack mounted in our CR200 19" x 525" rack. Like all Radiant Communications transmission systems, no adjustments are required at time of easy installation, or anytime thereafter.

BENEFITS

Multimode Distances up to 10 km

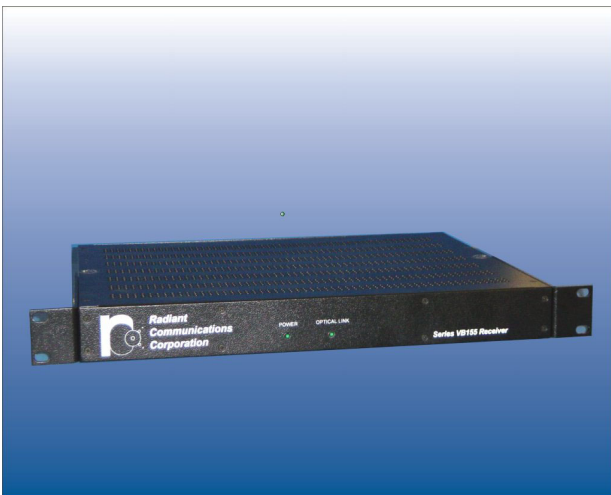
Singlemode Distances up to 100+ km

FEATURES

RS232 Data, RS422 Data and RS485 Data over singlemode or multimode fibers

Simplex, Asynchronous or Full Duplex Data

Diagnostic Indicators



**Radiant
Communications
Corporation**

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11/2005

▶ DB550 RS232/RS422/RS485 Data transport

SPECIFICATIONS

Data:

Bit error Rate: >10⁻⁹ within optical budget
Data Rate: 56 Kbps for RS232
19.2 Kbps for RS422
256 Kbps for RS485

Operating Mode: Asynchronous, Simplex or Full Duplex

Connector:

Data: 9 pin D Sub

Optical

Wavelength: 850 nm, 1310 nm, 1550 nm, CWDM, DWDM
Number of Fibers: 1 or 2
Optical Connector: ST, SC/APC, SC, FC, FC/APC

General Characteristics

Power: 650 mA @ +12-16 Volt DC
Operating Temperature: -20° to 50° C
Storage Temperature: -40° to 85° C
Size: rackmount 17.0" W x 13.0" D x 1.75" H
module 2.5" W x 4.0D x 1.0" H
Card Cage 1 Slot in CR200

ORDERING INFORMATION

PART NUMBER	DESCRIPTION	ATTENUATION	MAX DISTANCES
DB550M1-XY8	Data Transceiver, 1 Fibers, Multimode 850/1310 nm	16 dB	40 km
DB550M2-XY8	Data Transceiver, 2 Fibers, Multimode 850 nm	16 dB	40 km
DB550M2L-XY2	Data Transceiver, 2 Fibers, Multimode 1310 & 1550 nm	16 dB	40 km
DB550S1-XY3/5	Data Transceiver, 1 Fibers, Singlemode 1310/1550 nm	18 dB	0-100 km
DB550S2-XY3/5	Data Transceiver, 2 Fibers, Singlemode 1310 & 1550 nm	18 dB	0-100 km

Note:

- Units must be purchased in pairs.
- 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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