

DESCRIPTION



Radiant Communications DB509 is a full duplex Manchester transceiver that is designed to interface with CATV control systems, and is fully compatible with Jerrold Manchester equipment. Now you can use your dark fibers to replace expensive leased phone lines. Either one or two singlemode fibers are required. The system has a transmission distance of up to 35 km, and is available in either a one fiber or two fiber version. Like all Radiant Communications transmission systems, no adjustments are required at time of installation, or anytime thereafter.

▶ DB509 CATV Manchester Transceiver

▶ BENEFITS

Manchester Code

Compatible with GI Equipment



Replaces Leased Phone Lines

▶ FEATURES

Singlemode Distances of up to 35 km

One or Two Fiber Systems Available



**Radiant
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2/2005

▶ DB509 Manchester Transceiver

SPECIFICATIONS

Data:

Bit error Rate: >10⁻⁹ within optical budget
Full System Bandwidth: 20 Hz ~ 70 KHz
Input/Output Impedance: 120 Ohms
Voltage Level: 0.5 to 3 V peak to peak

Connector:

Data: F Connector

Optical

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

General Characteristics

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

Size: rackmount 17.0" W x 13.0D x 1.75" H
module 4.5" W x 4.5" D x 2.0" H
Card Cage 1 Slot in CR200

ORDERING INFORMATION

PART NUMBER	DESCRIPTION	MAX DISTANCES	ATTENUATION
DB509S2-XY3	Fiber Optic Manchester Transceiver, 1 Fibers, Singlemode 1310nm	35 km	12 dB
DB509S1-XY3	Fiber Optic Manchester Transceiver, 1 Fibers, Singlemode 1310nm	35 km	12 dB

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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