

DESCRIPTION

The Radiant DL206 series are fast Ethernet transceivers. Designed to transmit 100 Base-TX protocol over fiber in point to point applications.

Standard Ethernet for both 10 Mb/s and 100 Mb/s, is half duplex. The maximum transmission distance 10 Mb/s Ethernet may be transmitted is 2 km. Beyond 2 km, collision detection fails resulting in late collisions, CRC errors and lost packets. Since 100 Mb/s Ethernet (Fast Ethernet) is 10 times as fast, collision detection must occur in one tenth of the time period. Thus the maximum transmission distance for fast Ethernet may be transmitted is only 200 meters for all media, both fiber and copper.

Full duplex Ethernet allows simultaneous transmission and reception over separate physical paths, eliminating the need for collision detection. Since collisions are not possible, the distance limitations are removed from standard Ethernet. The DL206 series Ethernet transceivers can be set to full duplex operating mode. However for full duplex operation the network deices that the transceivers are attached to must also support the full duplex mode of operation.

DL206 100 Megabit Two Fiber Optic Transceiver

BENEFITS

- Plug and Play operation
- Converts media to Fiber for transport
- Transmission distances of 100 km or more

FEATURES

- Two fiber versions
- Full Duplex operation



**Radiant
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2/2005

DL206 Two Fiber 100 Meg Fiber Optic Transceiver

SPECIFICATIONS

Protocols

IEEE 802.3ab, 100Base-FX

LED Indicators

Power, Fiber Signal Detected, TP Signal Detected

Safety

VL-1950, TUV/UDE, CE

Optical

Wavelength: 850nm, 1310nm, 1550nm,
Number of Fibers: 2
Optical Connector: SC/APC, SC, FC, FC/APC

General Characteristics

Power: 9 v DC @ 500 mA via External Power Supply
Operating Temp: 0° to 40° C
Size: rackmount 17.0" W x 13.0 D x 1.75" H
Stand alone 3.8" x 4.8" D x 1.8"H
Card Cage 2 slots in CR200

ORDERING INFORMATION

PART NUMBER	DESCRIPTION	ATTENUATION	MAX DISTANCES
DL206-XY8	Media Converter, 2 Fibers, Multimode 850nm	11 dB	0-2 km
DL206/13-XY3	Media Converter, 2 Fibers, Multimode 1310 nm	11 dB	0-6 km
DL206/SM-XY3	Media Converter, 2 Fibers, Singlemode 1310nm	9 dB	0-20 km
DL206/SMHP-XY3	Media Converter, 2 Fibers, Singlemode 1310nm	18 dB	15-50 km
DL206/SMSP-XY3	Media Converter, 2 Fibers, Singlemode 1310nm	28 dB	30-80 km
DL206/SMUP-XY5	Media Converter, 2 Fibers, Singlemode 1550nm	28 dB	50-110 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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