

Fiber Optics

Lightwave Data Links, Retimers, and Interfaces

ODL 200 Lightwave Data Link



Description

The *ODL 200* Lightwave Data Link is a high-performance link that consists of a 1252 Series Transmitter and 1352 Series Receiver. It is designed for data rates from 40 to 220 Mb/s (NRZ) and will transmit over distances up to 3 km. The transmitter and receiver are single-chip, microwave complementary bipolar integrated circuit (MCBIC) designs and are housed in well-shielded, compact, connectorized 16-pin DIPs. The *ODL 200* Lightwave Data Link is designed to be used with 62.5/125 μm optical fiber and an *ST*[®] Lightguide Cable Connector. The data link may be used with other fibers as well.

Features

- 100K ECL-compatible
- Single power supply
- Single-chip, MCBIC design
- 18.3 dB typical power budget
- 3 km link
- 1.3 μm LED and PIN diode
- Link status indicator
- Optional TRU-200A Clock Recovery and Data Retiming Module (see page 8-3)

Product Matrix

Code	Product Description	Features
1252J	Transmitter	Data rates 40—220 Mb/s; long wavelength; 1.3 μm LED; optical power -19 dB; ± 4.5 V; 16-pin DIP; <i>ST</i> Connector
1252N	Transmitter	Same as 1252J Transmitter, with ± 5.0 V
1352J	Receiver	Data rates 40—220 Mb/s; long wavelength; PIN diode; sensitivity -30 dBm; -4.2 to -5.46 V; 16-pin DIP; <i>ST</i> Connector
1352N	Receiver	Same as 1352J Receiver, with $+4.2$ to $+5.46$ V
(Kit)	<i>ODL 200</i> Lightwave Data Link Models Kit	1252J/N Tx; 1352J/N Rx; 50-foot, 62.5 μm fiber cable
TRU-200A	Clock Recovery and Retiming Module	Optional for use with <i>ODL 200</i> Lightwave Data Link