

EMTD1262 and EMRD1262

12 Channel DDR Parallel Optical Tx and Rx Modules, 5.0 Gbps per Channel



PRODUCT BRIEF | NOVEMBER 2011

DIGITAL COMPONENTS



Applications

- Optical backplanes
- Ganged serial links
- Very Short Reach SONET
- Logic-logic data links
- Board-to-board and shelf-to-shelf
- Chip to Chip Interconnects
- Serial ATA Arrays

Features

- Self-contained suite of monitoring features.
- Adequate internal filtering to tolerate 100mV of noise on the power supplies.
- Electrical connector: Meg-Array® 100-pin receptacle on module.
- Independently keyed orientation for RX and TX modules.
- Single, system-level interrupt provides status eliminating the need for system status polling.
- Module personalities can be customized through the Two-Wire Serial (TWS) port to accommodate customer specific requirements and applications.
- Single 3.3V DC Operation
- Up to 5.0 Gbps Operation

The EMTD1262 and EMRD1262 are cost-effective high-speed discrete transmitter (TX) and receiver (RX) modules for use as parallel optical data communication links. The modules perform logic-to-light and light-to-logic conversions for data transmission over 50 m multi-mode fiber ribbon cable, at a wavelength of 850 nm.

The transmitter module uses an EMCORE 1x12 oxide-confined GaAs VCSEL array. The receiver uses an EMCORE high-speed GaAs photodiode PIN array.

For optical cable connections, both modules use industry standard IEC 1754-7 MPO connector receptacles. For electrical connections, both modules use widely accepted 100-pin Meg-Array® connectors.

Contact Information

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Emcore parallel optical products are covered by one or more US and International patents.