

EMTS1216 and EMRS1216

12 Channel Parallel Optical Tx and Rx Modules, 3.3 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

Features

- Single +3.3V power supply
- Power Consumption 1.3 Watts typ.
- 100-pin matrix array electrical connector
- MPO Optical connector
- CML data path inputs and outputs, with support for both AC and DC coupled IO
- Zero to 80 °C case temperature range

Compliance

- SNAP12 MSA compliant
- Eye safety: Class 1M laser product per EN609825-1 and FDA/CDRH
- Electromagnetic Emissions: FCC part 15 - Class B (Residential), EN55022 (Formerly CISPR 22)
- Electromagnetic Immunity: EN61000-4-3, GR-1089-CORE Section 3.3

The EMTS1216 and EMRS1216 are cost-effective high-speed 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 multi-mode fiber ribbon cable, at a wavelength of 850 nm.

The transmitter module uses a 1x12 oxide-confined VCSEL array. The receiver uses a high-speed photodiode 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 matrix-array connectors.

Contact Information

For more information please contact:

Sales — Emcore Fiber Optics Division
EDPCustomerservice@emcore.com
EMCORE Corporation
1600 Eubank Blvd SE
Albuquerque, New Mexico 87123
Tel: (505) 559-2600
Fax: (505) 323-3430

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