



EB30CS2T-LNR

3G-SDI emSFP™ Coaxial Dual Transmitter
Long reach with reclockers, Non-MSA, DIN1.0/2.3

Features

- SMPTE 424M, 292M, SMPTE 344M and SMPTE 259M compliant
- DIN1.0/2.3 connectors (75Ω)
- Integrated Reclocker and Cable Driver
- Supports DVB-ASI at 270Mb/s
- Supports video pathological patterns for SD-SDI, HD-SDI and 3G-SDI
- Control via serial interface including:
 - Module Information
 - Voltage & Temperature Monitoring
 - Reclocker rate & Lock Monitoring
 - Bypass Reclocker stage
- Low Power Consumption - typical 1100mW
- Single Supply +3.3V
56.6mm x 13.4mm x 8.6mm SFP Package
- Extended Temperature Range
-40°C to 80°C

Summary of Benefits

- **Flexibility:** Build a totally optimized system by mixing electrical and optical video SFP;
- **Cost:** Design cost effective system;
- **Modularity:** Allow hot scalability and replacement of critical components wherever possible;
- **Density:** Highest density ever achieved for standard 75Ω coaxial SDI interface;
- **Time-to-market:** Reduce development cost and risk;
- **Interchangeable:** Fully compatible with existing non-MSA video optical SFP;
- **Hot-Pluggable:** Swap without affecting system behaviour;
- **Advanced Packaging:** Support ganged cages, belly-to-belly and superposed cages mounting;
- **Inventory:** Just in time inventory management;
- **Green:** The EB30CS2T-LNR is Pb-free and ROHS compliant. In addition, it has very low power consumption.

Applications

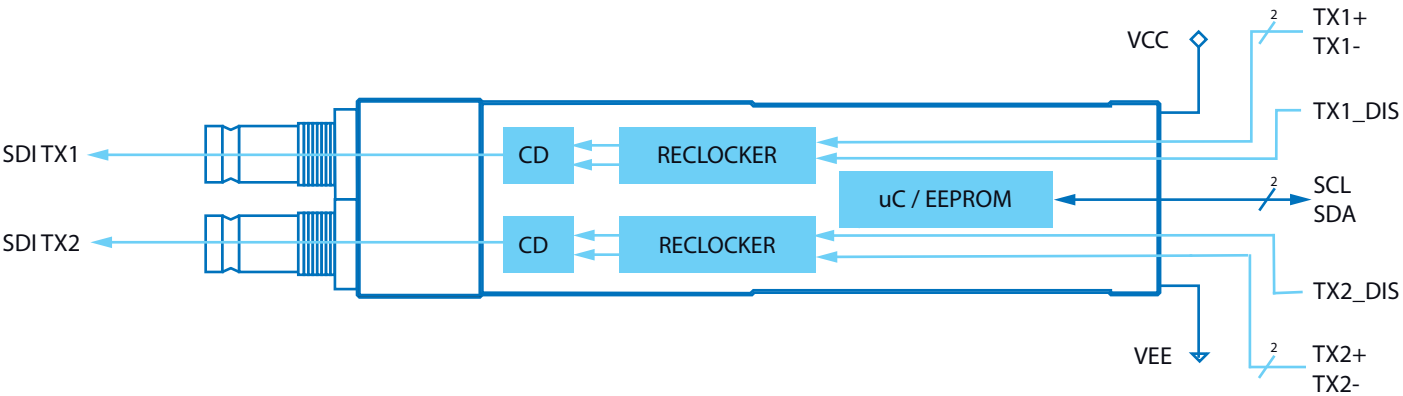
- Low cost video optical SFP replacement
- Distribution amplifiers
- Processing cards
- Video routers
- Broadcast cameras

Overview

The EB30CS2T-LNR is a long reach electrical emSFP transceiver module designed to transmit two SDI signals up to 2.97Gbps over 75Ω coaxial cables via DIN1.0/2.3 connectors. The cable driver slew rate is automatically configured in order to achieve compliance to SMPTE 424M/292M and SMPTE 259M. By suppressing accumulated jitter, each reclocker procures optimal output jitter performance.

The EB30CS2T-LNR provides module identification information and configuration through a two wire serial interface. It is also a hot-pluggable solution for field system upgrade and maintenance.

The EB30CS2T-LNR is interchangeable with other non-MSA optical video SFP improving product flexibility. Ganged cages, belly-to-belly and superposed cages mounting are supported. The module is SMPTE compliant resulting in quick time-to-market and reduced development effort and cost. The EB30CS2T-LNR is Pb-free and ROHS compliant.



Related Products

Part Number	Type	Pinout	Package	Temperature Range
EB30CSRT-LMR	Rx/Tx	MSA	SFP	-40°C to 80°C
EB30CS2R-LNR	2Rx	Non-MSA	SFP	-40°C to 80°C
EB30CSRT-LNR	Rx/Tx	Non-MSA	SFP	-40°C to 80°C



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