embrionix

EB30CS2T-LN
3Gbps SDI SFP Coaxial Dual Transmitter

Features

- SMPTE 424M, SMPTE 344M, SMPTE 292M and SMPTE 259M compliant

- DIN 1.0/2.3 connectors (75Ω)

- Integrated Tx Cable Drivers

- Supports DVB-ASI at 270Mb/s

- Supports video pathological patterns for SD-SDI, HD-SDI and 3G-SDI

- Control via serial interface including:
  - Output slew rate (SD or HD/3G)
  - Module Information

- Low Power Consumption - typical 351mW

- Single Supply +3.3V

- 56.6mm x 13.4mm x 8.6mm SFP Package

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, *Sell it, Plug it™*;

- **Green:** The EB30CS2T-LN is Pb-free and ROHS compliant. In addition, it has very low power consumption.
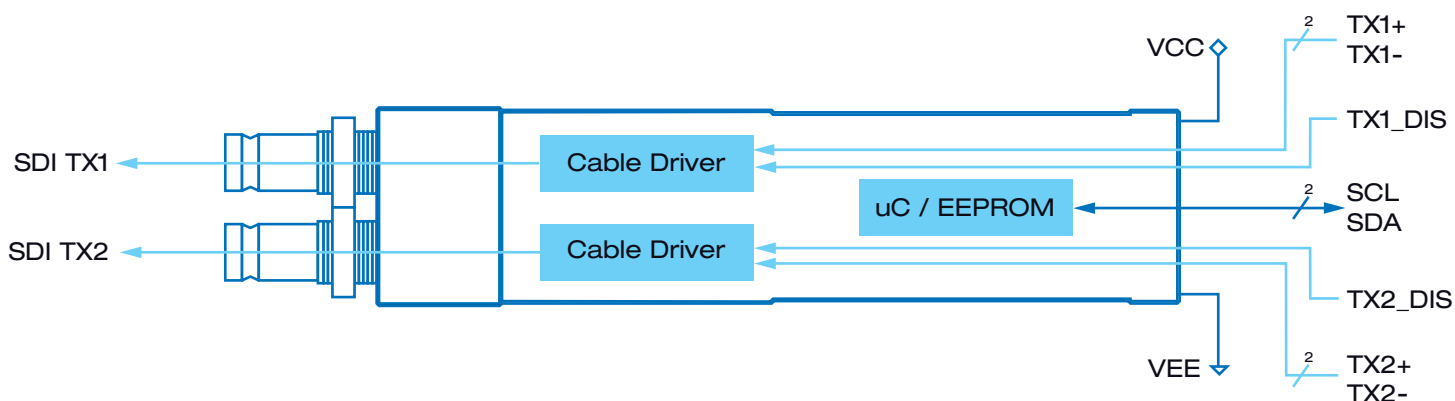
Applications

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

Overview

The EB30CS2T-LN is an electrical SFP transmitter module designed to transmit two SDI signals up to 2.97Gbps over 75Ω coaxial cables via DIN 1.0/2.3 connectors. The cable driver provides two selectable slew rates in order to achieve compliance to SMPTE 424M, SMPTE 292M and SMPTE 259M.

The EB30CS2T-LN 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-LN 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-LN is Pb-free and ROHS compliant.

Related Products

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

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