

Features

- SMPTE 424M, SMPTE 344M, SMPTE 292M and SMPTE 259M compliant
- DIN1.0/2.3 connectors (750)
- Integrated Equalizer:
 - Typical equalized length of Belden 1694A cable: 140m at 2.97Gb/s, 200m at 1.485Gb/s and 400m at 270Mb/s
- Typical Loopback length of Belden: 125 meters at 2.97Gbps*
- Integrated 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:
 - Input signal detection
 - Voltage & Temperature Monitoring
 - Passive loopback control
 - Module Information
- Power Consumption typical 1000 mW
- Single Supply +3.3V
 56.6mm x 13.4mm x 8.6mm SFP Package
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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 with Passive loopback feature;
- Time-to-market: Reduce development cost and risk;
- Interchangeable: Fully compatible with existing 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 EB30CSRT-LM 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

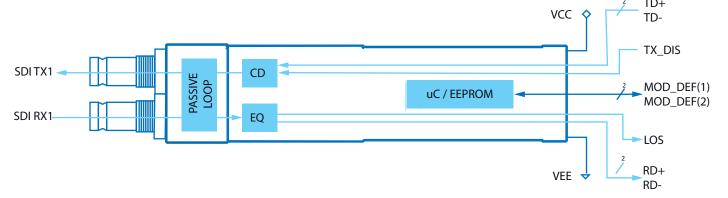
- Video routers
- Broadcast cameras

Overview

The EB30CSRT-LM-PL is a medium reach electrical emSFP transceiver module designed with reclockers to transmit and receive 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, SMPTE 292M and SMPTE 259M. The EB30CSRT-LM-PL is equipped with a passive loopback (relay) circuit. The passive loop enable cascading of several units or using the emSFP in a critical application. The passive loop control enable the user to turn on/off the loop after few seconds if required.

The EB30CSRT-LM-PL 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 EB30CSRT-LM-PL is interchangeable with other 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.



Related Products

| Part Number | Туре | Pinout | Package | Temperature Range |
|--------------|-------|---------|---------|-------------------|
| EB30CSRT-LNR | Rx/Tx | Non-MSA | SFP | -40°C to 80°C |
| EB30CS2R-LNR | 2Rx | Non-MSA | SFP | -40°C to 80°C |
| EB30CS2T-LNR | 2Tx | Non-MSA | SFP | -40°C to 80°C |

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