



# EB30CS2R-LN

## 3Gbps SDI SFP Coaxial Dual Receiver

### Features

- SMPTE 424M, SMPTE 344M, SMPTE 292M and SMPTE 259M compliant
- DIN 1.0/2.3 connectors (75Ω)
- Rx Equalizer:
  - Typical equalized length of Belden 1694A cable: 120m at 2.97Gb/s, 200m at 1.485Gb/s and 350m at 270Mb/s
- 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
  - Loss of signal status
- Low Power Consumption - typical 615mW
- 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:** Cost-effective system design;
- **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:** Reduces development costs and risks;
- **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 EB30CS2R-LN is Pb-free and ROHS compliant. In addition, it has very low power consumption.

### Applications

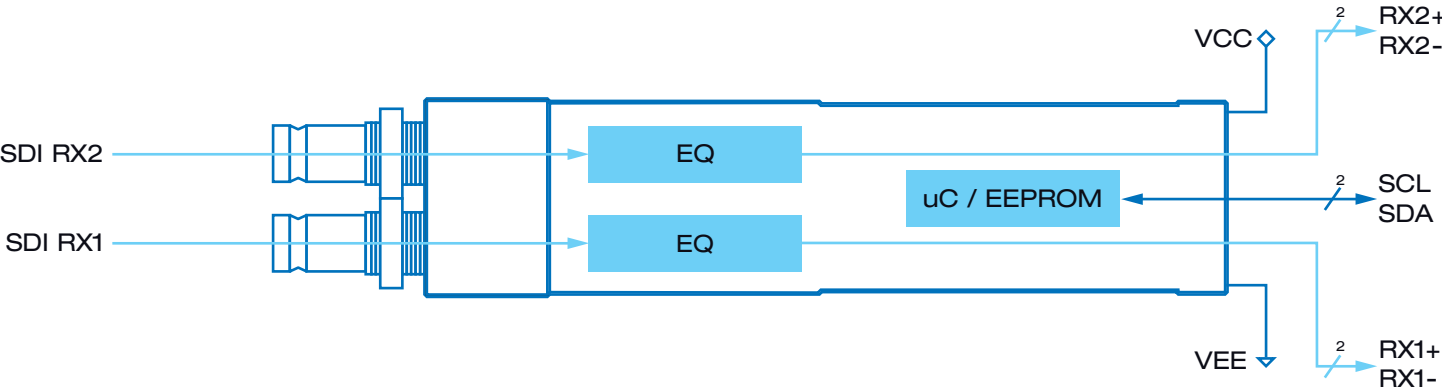
- Low cost video optical SFP replacement
- Distribution amplifiers
- Processing cards
- Video routers
- Multiviewers

# Overview

The EB30CS2R-LN is an electrical SFP dual receiver module designed to receive two SDI signals up to 2.97Gbps over 75Ω coaxial cables via DIN 1.0/2.3 connectors. The equalizer features DC restoration to compensate for the DC content of SMPTE pathological test patterns.

The EB30CS2R-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 EB30CS2R-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 EB30CS2R-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
EB30CS2T-LN	2Tx	Non-MSA	SFP	-40°C to 80°C

[sales@embrionix.com](mailto:sales@embrionix.com)