

Features

- 6G UHD-SDI, 4K ready emSFP
- SMPTE ST 424M, ST 292M, and SMPTE ST 259M compliant
- HD-BNC™ connectors (75Ω)
- Integrated Reclocker and Cable Driver
- Supports DVB-ASI at 270Mb/s
- Supports video pathological patterns for SD-SDI, HD-SDI, 3G-SDI and 6G UHD-SDI
- Control via serial interface including
- Module Information
- Voltage & Temperature Monitoring
- Low Power Consumption typical 404mW
- 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 video 4K or 3G electrical and 4K, 3G 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, 3G electrical SFP and 4K 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 EB59HD2T-SN 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

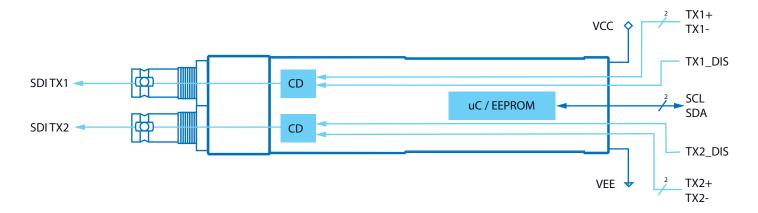
- Video routers
- Broadcast cameras
- 4K applications

Overview

The EB59HD2T-SN is an electrical 4K (6G UHD-SDI) emSFPTM dual transmitter module designed to transmit two SDI signals up to 5.94Gbps over 75Ω coaxial cables via HD-BNCTM connectors. The EB59HD2T-SN emSFP doubles the data capacity per channel, and reduce the number of cables required for 4K transport.

The EB59HD2T-SN provides module identification information and configuration through a two wire serial interface. It is also a hotpluggable solution for field system upgrade and maintenance.

The EB59HD2T-SN is interchangeable with other non-MSA optical video SFP or 3G electrical 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 EB59HD2T-SN is Pb-free and ROHS compliant.



Related Products

Part Number	Type	Pinout	Package	Temperature Range
EB59HDRT-SM	Rx/Tx	MSA	SFP	-40°C to 80°C
EB59HD2R-SN	2Rx	Non-MSA	SFP	-40°C to 80°C
EB59HDRT-SN	Rx/Tx	Non-MSA	SFP	-40°C to 80°C



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