



**EB60LC2T-MN-13F13F**  
3Gbps SDI emSFP™ Optical Dual Transmitter 1310nm  
Medium Haul, Non-MSA

## Features

- SMPTE 297-2006 compliant
- Supports video pathological patterns for SD-SDI, HD-SDI and 3G-SDI
- Supports DVB-ASI
- Typical optical power of -2 to -1dBm @1310nm
- Control via serial interface including:
  - Pre-defined configuration power
  - Voltage & temperature monitoring
  - Module Information
- SFP can be plugged and unplugged with LC fibers connected
- Operating temperature range of 0C to 70C
- Power Consumption : 860mW (typ.) TBD mW (in low power mode)
- Single Supply +3.3V  
58.5mm x 13.4mm x 8.6mm SFP package

## Summary of Benefits

- **Flexibility:** Build a totally optimized system by mixing electrical SDI, NTSC/PAL converter, HDMI/DVI and optical emSFP™;
- **Cost:** Design cost effective system by integrating reclockers when needed;
- **Modularity:** Allow hot scalability and replacement of critical components wherever possible;
- **Density:** emSFP™ provides the highest density solution of SDI interface;
- **Time-to-market:** Reduce development cost and risk;
- **Interchangeable:** Fully compatible with existing non-MSA video coaxial emSFP™ and emSFP™ converters;
- **Hot-Pluggable:** Swap without affecting system behaviour;
- **Advanced Packaging:** Support ganged cages, belly-to-belly and superposed cage mounting;
- **Inventory:** Just in time inventory management;
- **Green:** The EB60LC2T-MN-13F13F is Pb-free and ROHS compliant. In addition, it has very low power consumption.

## Applications

- Distribution amplifiers
- Processing cards
- Video routers
- Broadcast cameras

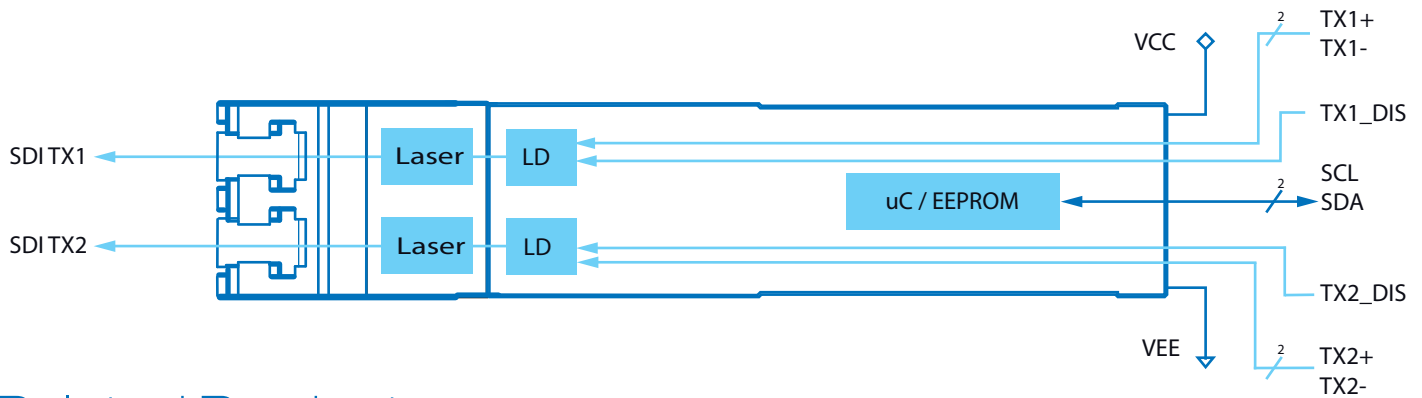
## Overview

The EB60LC2T-MN-13F13F is an optical emSFP™ dual transmitter 1310nm module designed to transmit two SDI signals up to 2.97Gbps over single mode fiber (9um/125um). The module is carefully designed to accept pathological test patterns. The module can also be configured in low, medium and high power mode to maximized the Laser life and reach longer distance.

The EB60LC2T-MN-13F13F contains two 1310nm Fabry-Perot laser transmitter with optical output power of -1dBm +/- 1dBm.

The EB60LC2T-MN-13F13F 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 EB60LC2T-MN-13F13F is interchangeable with other non-MSA optical video SFP improving product flexibility. The SFP form factor provides quick time-to-market and reduced development effort and cost. The EB60LC2T-MN-13F13F is Pb-free and ROHS compliant.



## Related Products

Part number	Type	Pinout	Reach	(nm)	LD	PD	Pout (min)	Sensitivity (max)	Link Budget	Temperature range
EB60LCRT-MN-13F	Rx/Tx	Non-MSA	50Km*	1310	FP	PIN	-2dBm	-22dBm**	20dB	0-70C
EB60LCRT-MM-13F	Rx/Tx	MSA	50Km*	1310	FP	PIN	-2dBm	-22dBm**	20dB	0-70C
EB60LC2R-MN	2RX	Non-MSA	--	--	--	PIN	--	-22dBm**	--	0-70C

\* Distance calculation based on 0.35dB loss per Km and ideal conditions.

\*\* -22dBm at 2.97Gb/s pathological Level A. -23dBm at 2.97Gb/s color bars. Contact factory for an higher sensitivity



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