



EB12LC2T-MNE-13F

UHD 12G-SDI (4K) emSFP™ Optical Dual transmitter
Medium Haul with reclockers & emPROBE™, Non-MSA

Features

- Integrated SDI Reclockers & emPROBE™
- ST-2082*, ST-2081*, ST-424, ST-292, ST-259, ST-297 compliant
- Supports video pathological patterns for 24G-SDI (4K120 dual links), 12G-SDI (4K60), 6G-SDI (UHD-SDI), 3G-SDI, HD-SDI, SD-SDI and DVB-ASI
- LC connector type
- Typical optical power of -3dBm @1310nm
- Control via serial interface including:
 - Reclocker rate (12G, 6G, 3G, HD, SD) & lock / loss monitoring
 - emPROBE & high freq jitter monitoring
 - Voltage & temperature monitoring
 - Module information
- Hot pluggable and Hot removable with fibers plugged-in
- Operating temperature range of 0C to 70C
- Power consumption 1.2W.
- 60mm x 13mm x 8mm SFP package

* Aligned with preliminary specification for 4K.

Advantages

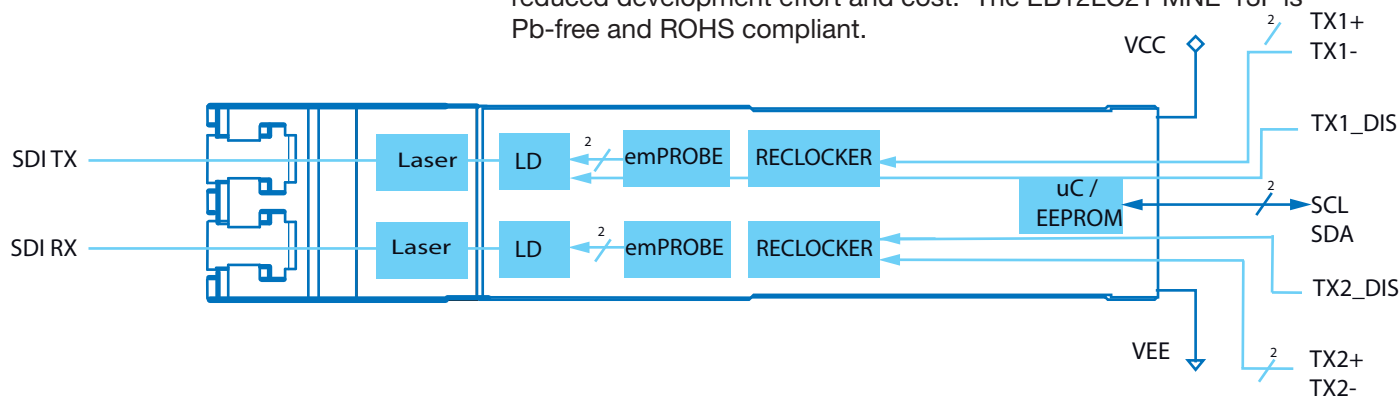
- **Flexibility:** Build a totally optimized system based on SFP cages; by mixing optical video SFP, coaxial video SFP, Composite (NTSC/PAL) and HDMI video emSFP converters;
- **Cost:** A single design for all your platforms (SFP cage based) and a build as you grow solution;
- **Proven:** SFP based designs have proven their superior reusability in multiple industries for more than 10 years;
- **Density:** emSFP™ and video SFP provide the highest density solution for SDI interfaces;
- **Time-to-market:** 12G-SDI ready solution reducing development cost and risk around the 4K adoption;
- **Advanced Packaging:** Support ganged cages, belly-to-belly and superposed cages mounting;
- **Green:** The EB12LC2T-MNE-13F has a very low power consumption, resulting in less cooling and power usage.

Overview

The video SFP EB12LC2T-MNE-13F is an optical emSFP™ dual transmitter module designed to transmit two SDI signals up to 11.88Gbps over single mode fiber (9um/125um). The module is carefully designed to accept pathological test patterns of any rate (SD-SDI to 12G UHD-SDI ,4K). By suppressing accumulated jitter, each reclocker procures optimal input & output jitter performance at HD, 3G, 6G and 12G-SDI. The emPROBE allows the diagnostic and monitoring of the incoming signals without any intervention.

emPROBE™ allows the diagnostic and monitoring of the incoming signal without intervention. emPROBE™ provides jitter values, video standards, and additional monitoring and diagnostic information of your signal paths.

The EB12LC2T-MNE-13F is interchangeable with other non-MSA optical, electrical video SFP and emSFP converters improving product flexibility. The SFP form factor provides quick time-to-market and reduced development effort and cost. The EB12LC2T-MNE-13F is Pb-free and ROHS compliant.



Related Products

Part Number	Type	Pinout	Package	Temperature
EB12LCRT-MME-P13F	Rx/Tx	MSA	SFP	0°C to 70°C
EB12LC2R-MNE-P	2Rx	Non-MSA	SFP	0°C to 70°C
EB12LCRT-MNE-P13F	Rx/Tx	Non-MSA	SFP	0°C to 70°C

