

FiberPlex SFP-BHDVXC-0000-L

3GBPS SDI SFP COAXIAL TRANSCEIVER - LONG REACH WITH RELOCKERS, MSA, HD-BNC™



Description

The SFP-BHDVXC-0000-L is a long reach electrical SFP transceiver module designed with relockers to transmit and receive SDI signals up to 2.97Gbps over 75Ω coaxial cables via HD-BNC™ connectors. The cable driver slew rate is automatically configured in order to achieve compliance to SMPTE 424M, SMPTE 292M and SMPTE 259M. The equalizer features DC restoration to compensate for the DC content of SMPTE pathological test patterns. The SFP-BHDVXC-0000-R includes relocking circuitry. By suppressing accumulated jitter, each relocker procures optimal input & output jitter performance.



The SFP-BHDVXC-0000-L 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 SFP-BHDVXC-0000-L is interchangeable with other MSA optical video SFP improving product flexibility. Ganged cages, belly-to-belly and superposed cage mountings are supported. The module is SMPTE compliant resulting in reduced development effort and cost. The SFP-BHDVXC-0000-L is Pb-free and ROHS compliant.

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

Interchangeable: Fully compatible with existing MSA video optical SFP

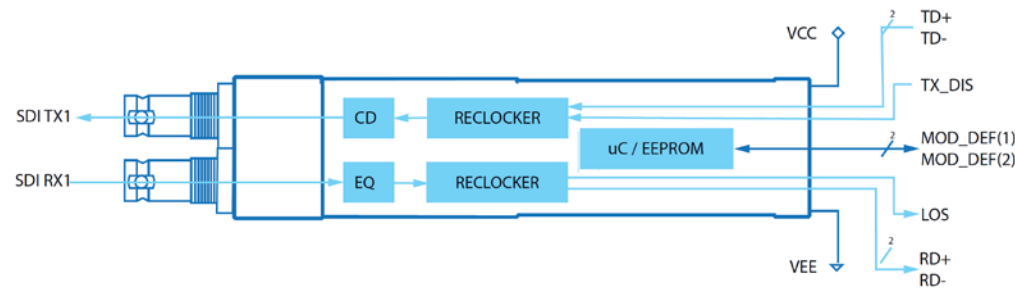
Hot-Pluggable: Swap without affecting system behavior

Advanced Packaging: Support ganged cages, belly-to-belly and superposed cages mounting

Green: The SFP-BHDVXC-0000-L is Pb-free and ROHS compliant. In addition, it has very low power consumption.

Typical Applications

- Multi-channel/multi-media transport with WDM16
- Distribution amplifiers
- Processing cards
- Video routers
- Broadcast cameras



Video

Features:

- SMPTE 424M, SMPTE 344M, SMPTE 292M and SMPTE 259M compliant
- HD-BNC™ connectors (75Ω)
- Integrated Reclocker and Equalizer:
 - Typical equalized length of Belden 1694A cable: 140m at 2.97Gb/s, 200m at 1.485Gb/s and 400m at 270Mb/s
- Integrated Reclocker and 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
 - Reclocker Rate & Lock
 - Voltage & Temperature Monitoring
 - Bypass Reclocker stage
 - Module Information
- Power Consumption - typical 1216mW
- Single Supply +3.3V 56.6mm x 13.4mm x 8.6mm SFP Package
- Extended Temperature Range -40°C to 80°C

Used With

Model	Description
WDM-16	Wave Division Multiplexer