

Coaxial SFP

Electrical I/O Module 2



Build a totally optimized system by mixing electrical SDI, NTSC/PAL

The Thinklogical CSA-000002 is an electrical emSFP transceiver module designed to encode and decode composite signals over 75Ω coaxial cables via DIN1.0/2.3 connectors. On the receive channel, the module decodes NTSC/PAL composite inputs and converts to SD-SDI signal.

On the transmit channel, the module encodes the SD-SDI signal to NTSC/PAL composite. The CSA-000002 provides module identification information, configuration and diagnostic monitoring through a two wire serial interface. It is also a hot-pluggable solution for field system upgrade and maintenance.

The CSA-000002 is interchangeable with other MSA optical video SFP or coaxial emSFP improving product flexibility. The module is SMPTE 259M-C compliant.

- SMPTE 259M-C compliant
- DIN 1.0/2.3 75Ω connectors
- Supported composite standards:
NTSC M, NTSC J, NTSC 4.43
PAL B/G/H/I/D, PAL M, PAL N, PAL 60
- Integrated reclocker and cable driver
- RX channel:
10-bit composite to SD-SDI video decoder
- TX channel:
SD-SDI to composite 10-bit video encoder
- Hot-pluggable, swap without affecting system behavior
- Compatible with Thinklogical’s VX and HDX routers

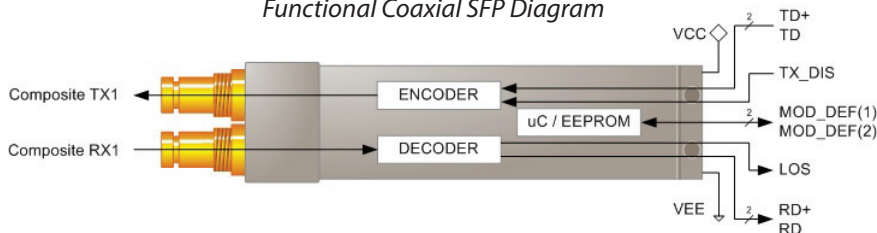
Technical Specifications

Power requirements: single supply +3.3V
Physical dimensions: 58.5mm x 13.4mm x 8.6mm SFP package
Operating temperature range: -40°C to 80°C

Ordering Information

Part Number	Description
CSA-000002-R	COMPOSITE NTSC/PAL VIDEO CODEC (TRANSCIEVER), MSA, DIN 1.0/2.3

Functional Coaxial SFP Diagram



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