

# Coaxial SFP

## Electrical I/O Module 1



The Thinklogical CSA-000001 is an electrical SFP Transceiver module with reclockers designed to transmit and receive SDI signals up to 2.97Gbps over 75Ω coaxial cables via DIN 1.0/2.3 connectors. Cable driver slew rate is automatically configured in order to achieve compliance to SMPTE 424M/SMPTE 292M and SMPTE 259M. Equalizer features DC restoration to compensate for the DC content of SMPTE pathological test patterns. By suppressing accumulated jitter, each reclocker procures optimal input and output jitter performance.

The Thinklogical CSA-000001 provides module identification information and diagnostic monitoring through a two wire serial interface. It is also a hot-pluggable solution for in field system upgrade and maintenance. The CSA-000001 is interchangeable with other MSA pinout optical video SFPs. The module is SMPTE compliant.

- SMPTE 424M, SMPTE 292M, and SMPTE 259M compliant
- DIN 1.0/2.3 75Ω connectors  
Integrated reclocker and equalizer -  
Equalizes Belden 1694A cable up to:  
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
- Hot-pluggable
- Compatible with Thinklogical's VX and HDX routers

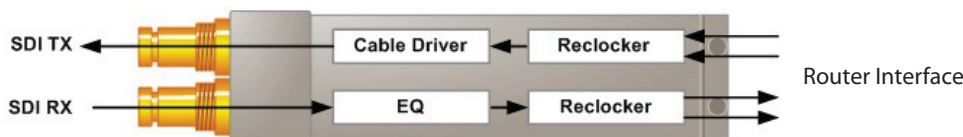
### Technical Specifications

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

### Ordering Information

Part Number	Description
CSA-000001-R	SFP, SDI COAXIAL TRANSCEIVER, DIN 1.0/2.3 W/RELOCKER

Functional Coaxial SFP Diagram



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