

fiber options

OH-TR-12G-SDI SFP Data Sheet

12G SDI HD-BNC Electrical Transceiver

- Supports pathological patterns 12G-SDI, 6G-SDI, 3G-SDI, HD-SDI and SD-SDI
- Support for SMPTE-2082-1, SMPTE-2081-1, SMPTE-424, SMPTE-292 and SMPTE-259
- SFF-8431 compliant.
- HD BNC Connector (75 Ω)
- Compatible with DVB-ASI and AES10 (MADI)
- Pluggable and hot swappable

The OH-TR-12GSDI electrical transceiver is a fully integrated plug in option for selected LYNX Technik products. This facilitates converting the integrated fiber I/O SFP socket included in the products to now accept electrical SDI signals with HD-BNC connectors.

The module accommodates 12Gbit, 6Gbit, 3Gbit, 1.5Gbit and 270Mbit SDI signals conforming to SMPTE-2082-1, SMPTE-2081-1, SMPTE-424, SMPTE-292 and SMPTE-259.



Specifications

SDI Input (RX)		
Video Standards	Multi-standard operation from ST 2082-1 (12G), ST-2081-1 (6G), ST-424 (3G), ST-292 (HD) and ST-259M (SD), DVB-ASI (270Mbit)	
Connection	HD BNC	
Impedance	75Ω	
Return Loss	Bandwidth 0 -1.5 GHz	18 dB (typical)
	Bandwidth 1.5-3 GHz	13 dB (typical)
Cable length (Belden 1694A)	270 Mbit/s	300m
	1.5 Gbit/s	200m
	3 Gbit/s	140m
	12 Gbit/s	50m
SDI Output (TX)		
Video Standards	Multi-standard operation from ST 2082-1 (12G), ST-2081-1 (6G), ST-424 (3G), ST-292 (HD) and ST-259M (SD), DVB-ASI (270Mbit)	
Connection	HD BNC	
Impedance	75Ω	
Return Loss	Bandwidth 0 -1.5 GHz	>15 dB (typical)
	Bandwidth 1.5-3 GHz	>10 dB (typical)
Alignment Jitter*	SD (ST-259M)	< 0.2 UI
	1.5G (ST-292M)	< 0.2 UI
	3G (ST-424M)	< 0.3 UI
	12G (ST-2082M)	< 0.3 UI

*Measured while the SFP was active in a LYNX Technik device.

Mechanical

Parameter	
Size (not including connector)	57mm x 13.4mm x 12.4mm
Weight	50g
SFP Connector pinning	MSA
Connections	HD BNC (75Ω)
Operating Temperature Range	0°C - 70°C
Power Supply Voltage	3.3VDC
Power Consumption	165mA typical, 220mA max
Humidity (non condensing)	85%

Ordering Information

EAN / UPC	Model	Description
4250479328174	OH-TR-12G-SDI	12G/6G/3G/HD/SD video SFP, Transceiver, HD BNC connector