

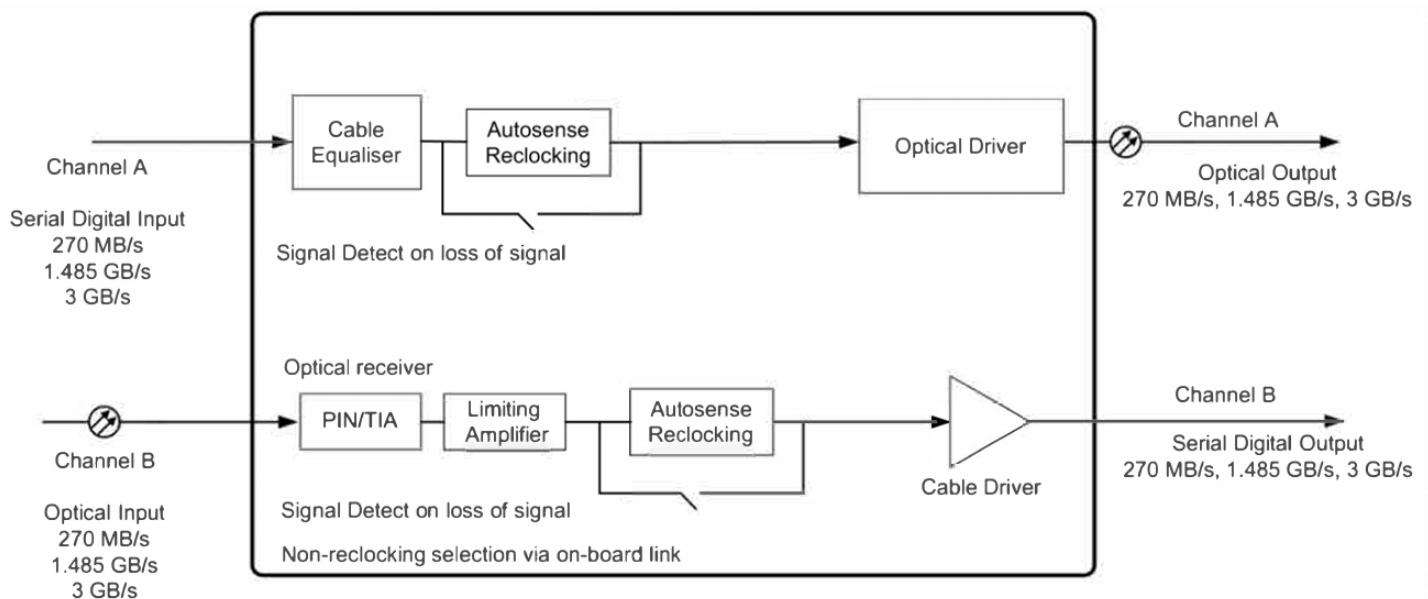
BC Series Modular Fibre Optic Interface System



Description:

- Dual-channel transceiver module for converting two independent 3G-SDI, HD-SDI, SD-SDI, or ASI signals to and from fibre optic.
- Each signal is auto-sensed, equalised, and reclocked before conversion and transmission over a separate single optical fibre.
- Compact, robust enclosure suited for Outside Broadcast, special events, and studio applications.
- Powered via the optional PS12 unit (supplied separately) with IEC mains inlet for easy integration into standard bays.
- 4-pin XLR connector supports external DC power sources from 4.5 V to 17 V.
- Provides interference-free transmission and extended range for HD-SDI and 3G-SDI signals.
- Supports data rates from 50 Mb/s to 3 Gb/s, with each channel able to operate in non-reclocking mode.
- Available in singlemode, WDM, and CWDM variants for different fibre applications.
- Fully compatible with standard Bluebell cards and enclosures.

BC323TR Schematic diagram:



Specifications

Electrical Input	
Standards	SMPTE 424M , SMPTE 292M, SMPTE 259M, SMPTE 297M, DVB-ASI
Equalisation	Automatic to 100 m @3 Gb/s Automatic to 200 m @ 1.485 Gb/s Automatic to 300 m @ 270 Mb/s Equaliser and reclocking can be bypassed to support data rates down to 50 Mb/s
Connector	1 x 75 Ohm BNC per IEC 60169-8 Amendment 2 per channel
Return loss	> 15 dB@ 1.485 Gb/s
Format	Reclocked (with bypass to support data rates down to 50 Mb/s) Please note that the factory default unless specified is for units to be supplied in reclocking mode. Non-reclocking settings are accessed via module pcb
Optical Output	
Connector	1 x female LC as standard per channel
Wavelength	1310-1550 nm (See Ordering Info)
Optical power	-2 dBm@ 1310 nm (typical) -2 dBm @ 1510 nm (typical) 0 dBm @ CWDM (typical)

General module specifications	
Length	92 mm 142 mm Extended enclosure
Width	64 mm
Height	30 mm Excluding connectors
Weight	100 g
Operating Temp	-30 to +70 °C
Power	2W
Voltage	4.5 to 17 V de
Signal Detect	LED on for signal loss
Conformance	
EMI/RFI	Complies with 89/336/EEC
Electrical	Complies with EN 61000-6-1, EN61000-6-2
Laser Safety	Complies with Class 1 laser product 24 CFR 1040.10 & 1040.11
RoHS	Complies with Directive 2002/95/EC
Warranty	5 years
Electrical Output	
Standards	SMPTE 424M , SMPTE 292M, SMPTE 259M, SMPTE 297M, DVB-ASI Automatic rate selection for 3G-SDI, HD-SDI and SD-SDI data rates
Connector	1 x 75 Ohm BNC per IEC 60169-8 Amendment 2 per channel
Return loss	> 15 dB@ 1.485 Gb/s
Format	Reclocked (with bypass to support data rates down to 50 Mb/s)
Polarity	1 x Non inverting, 1 x inverting output
Signal Level	800 mV +/- 10%
DC Offset	0 +/- 0.5 V
Jitter	<0.15 UI line equalized

Ordering Information

BC323TR	Dual Channel 3G/SDI, HD/SDI Fibre Optic Transceiver Module, Auto-Sensing for SDI, ASI, HD/SDI and 3G/SDI (850nm). Fitted with LC connectors. PS12 power supply ordered separately.
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