

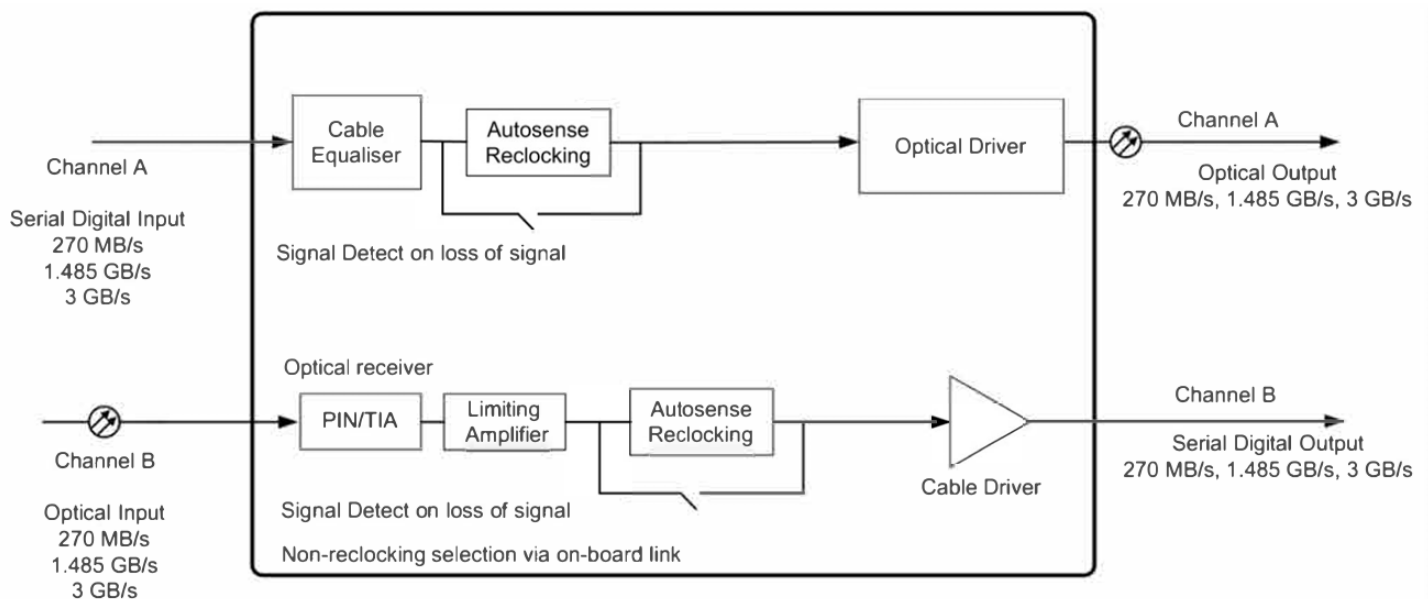
BC Series Modular Fibre Optic Interface System



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



Specifications

Electrical Input		General module specifications	
Standards	SMPTE 424M , SMPTE 292M, SMPTE 259M, SMPTE 297M, DVB-ASI	Length	92 mm 142 mm Extended enclosure
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	Width	64 mm
Connector	1 x 75 Ohm BNC per IEC 60169-8 Amendment 2 per channel	Height	30 mm Excluding connectors
Return loss	> 15 dB@ 1.485 Gb/s	Weight	100 g
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	Operating Temp	-30 to +70 °C
Optical Output		Power	2W
Connector	1 x female LC as standard per channel	Voltage	4.5 to 17 V de
Wavelength	1310-1550 nm (See Ordering Info)	Signal Detect	LED on for signal loss
Optical power	-2 dBm@ 1310 nm (typical) -2 dBm @ 1510 nm (typical) 0 dBm @ CWDM (typical)	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/M	Multimode 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.
BC323TR/S/13/13	Singlemode Dual Channel 3G/SDI, HD/SDI Fibre Optic Transceiver Module, Auto-Sensing for SDI, ASI, HD/SDI and 3G/SDI (1310nm). Fitted with LC connectors. PS12 power supply ordered separately
BC323TR/S/13/15	Singlemode Dual Channel 3G/SDI, HD/SDI Fibre Optic Transceiver Module, Auto-Sensing for SDI, ASI, HD/SDI and 3G/SDI (1550nm). Fitted with LC connectors. PS12 power supply ordered separately.
BC323TR/S/CWDM	Singlemode Dual Channel 3G/SDI, HD/SDI Fibre Optic Transceiver Module, Auto-Sensing for SDI, ASI, HD/SDI and 3G/SDI. (Dedicated CWDM Tuned Laser, Wavelength to suit ITU Grid Spacing - see CWDM Ordering Matrix). LC connectors as standard. PS12 power supply ordered separately. Each module has a transmitter at the specified wavelength and a separate wideband receiver
PS12	10 watt Plugtop PSU for the BC313/323/550 Product Range. Fitted with 4 pin XLR. Voltage range 100-240 V ac 50/60 Hz



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