

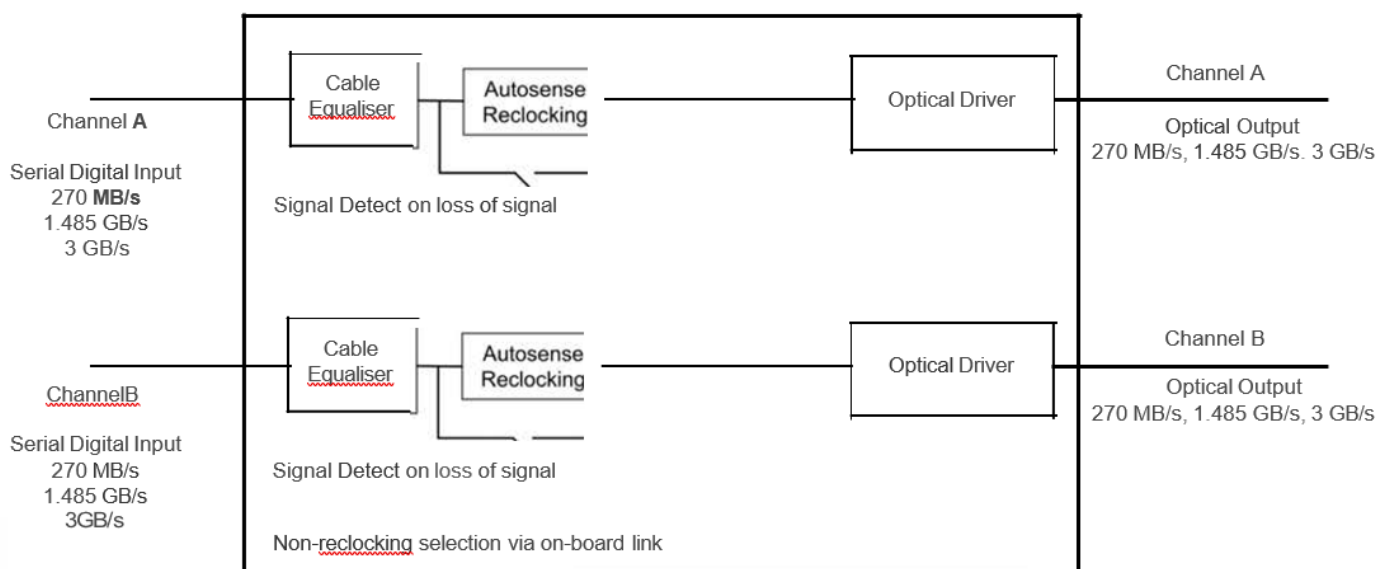
## BC Series Modular Fibre Optic Interface System



### Description:

- Transmitter module for converting two independent 3G-SDI, HD-SDI, SD-SDI, or ASI signals into fibre optic.
- Each signal is auto-sensed, equalised, reclocked, and transmitted over a separate single optical fibre.
- Compact, robust enclosure designed for Outside Broadcast, special events, and studio applications.
- Powered via the 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.
- Dual-channel design 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; channels can operate in non-reclocking mode.
- Available in singlemode, WDM, and CWDM variants to suit different fibre applications.
- Compatible with all standard Bluebell cards and enclosures.

### BC323T 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

## Ordering Information

BC323T/M	Multimode Dual Channel 3G/SDI, HD/SDI Fibre Optic Transmitter Module, Auto-Sensing for SDI, <b>ASI</b> , HD/SDI and 3G/SDI (850nm). Fitted with LC connectors. PS12 power supply ordered separately.
BC323T/S/13/13	Singlemode Dual Channel 3G/SDI, HD/SDI Fibre Optic Transmitter Module, Auto-Sensing for SDI, <b>ASI</b> , HD/SDI and 3G/SDI (1310nm). Fitted with LC connectors. PS12 power supply ordered separately.
BC323T/S/13/15	Singlemode Dual Channel 3G/SDI, HD/SDI Fibre Optic Transmitter Module, Auto-Sensing for SDI, <b>ASI</b> , HD/SDI and 3G/SDI (1310nm and 1550nm). Fitted with LC connectors. PS12 power supply ordered separately
BC323T/S/CWDM	Singlemode Dual Channel 3G/SDI, HD/SDI Fibre Optic Transmitter 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.
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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