

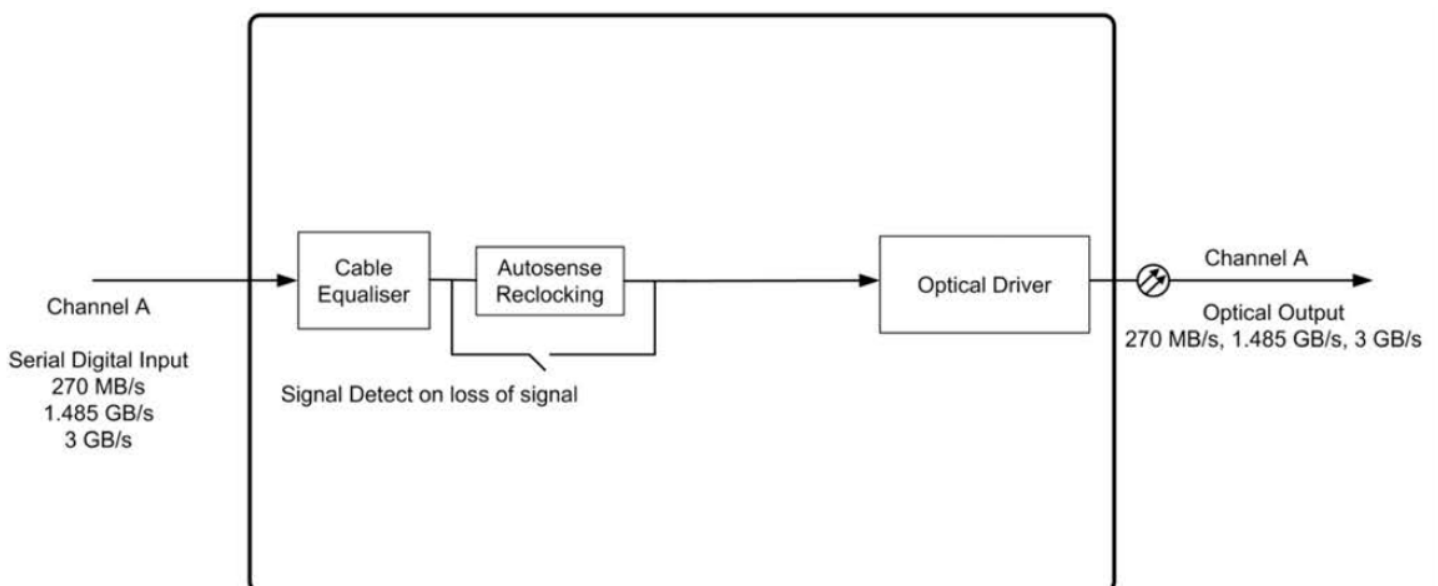
BC Series Modular Fibre Optic Interface System



Description:

- Transmitter module for converting 3G-SDI, HD-SDI, SD-SDI, and ASI signals to fibre optic.
- Auto-senses input, equalises, and reclocks before sending over a single optical fibre.
- Compact, robust enclosure suitable for OB, special events, and studio use.
- Powered via optional PS10/XLR unit (IEC mains inlet) or 4-pin XLR (4.5–17 V DC).
- Supports non-reclocking mode and data rates from 50 Mb/s to 3 Gb/s.
- Available in singlemode, WDM, and CWDM variants for various fibre applications.
- Interfaces with all standard Bluebell cards and enclosures.
- Also available with loop input option.

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
Return Loss	> 15 dB @ 1.485 Gb/s
Format	Reclocked (with bypass to support data rates down to 10 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
Wavelength	1310 – 1550 nm See Ordering Information
Optical Power	-2 dBm @ 1310 nm (typical) -2 dBm @ 1510 nm (typical) 0 dBm @ CWDM (typical)

General Module Specifications	
Length	92mm 142mm Extended enclosure
Width	64mm
Height	30mm Excluding connectors
Weight	100g
Operating Temp	-30 to +70 °C
Power	2.5 W
Voltage	4.5 to 17 V de
Signal detect	LED on for loss of signal
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

BC313T/M	Multimode Single Channel 3G/SDI, HD/SDI Fibre Optic Transmitter Module, Auto-Sensing for SDI, ASI, HD/SDI and 3G/SDI . Fitted with LC connectors. PS12 power supply ordered separately.
BC313T/S/13	Singlemode Single Channel 3G/SDI, HD/SDI Fibre Optic Transmitter Module, Auto-Sensing for SDI, ASI, HD/SDI and 3G/SDI (1310nm). Fitted with LC connectors. PS12 power supply ordered separately.
BC313T/S/15	Singlemode Single Channel 3G/SDI, HD/SDI Fibre Optic Transmitter Module, Auto-Sensing for SDI, ASI, HD/SDI and 3G/SDI (1550nm). Fitted with LC connectors. PS12 power supply ordered separately.
BC313T/S/CWDM	Singlemode Single 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.
The BC313 can also be supplied in an “extended” enclosure with ST connectors — add /ST to the end of the part numbers above.	



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