Bluebell

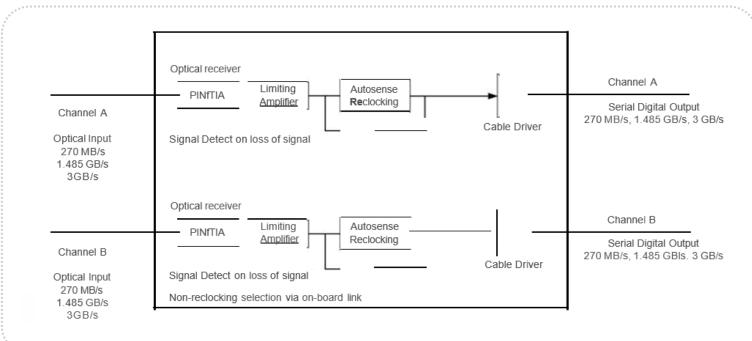
BC Series Modular Fibre Optic Interface System



Description:

- Dual-channel receiver converting two independent optical signals to electrical 3G-SDI, HD-SDI, SD-SDI, or ASI.
- Optical input is processed through a transimpedance and limiting amplifier, then electrically reclocked on output.
- Compact, robust enclosure for OB, special events, and studio use.
- Powered via PS12 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 different fibre applications.
- Fully compatible with all standard Bluebell cards and enclosures.

Schematic diagram:



Specifications

Electrical Output		
Standards	SMPTE 424M, SMPTE 292M,	
	SMPTE 259M,	
	SMPTE 297M, DVB-ASI	
Connector	1 x 75 Ohm BNC per IEC	
	60169-8 Amendment 2 per	
	channel	
Return Loss	> 15 dB @ 1.485 Gb/	
Format	Reclocked (with bypass to	
	support data rates down to 50	
	Mb/s)	
Signal level	800 mV +/- 10%	
DC Offset	0 +/- 0.5 V	
Jitter	<0.15 UI line equalised	
Optical Input		
Connector	1 x female LC as standard per	
	channel	
	See Ordering Information	
Wavelength	1270 – 1610 nm	
	See Ordering Information for	
	multimode and singlemode	
	variants	
Optical Power	> -25.0 dBm @ 3 Gb/s	
	> -25.5 dBm @ 1.485 Mb/s	
	> -26.0 dBm @ 270 Mb/s	
Max I/P Power	>-1dBm	
Data rate	50 Mb/s to 3 Gb/s	

General Module Specifications	
Length	92mm 142mm Extended
	enclosure
Width	64mm
Height	30mm Excluding connectors
Weight	100g
Operating Temp	-30 to +70 °C
Power	2 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

BC323R/M Multimode Dual Channel 3G/SDI, HD/SDI Fibre Optic Receiver Module,

Auto-Sensing for SDI, ASI, HD/SDI and 3G/SDI. Fitted with LC

connectors. PS12 power supply ordered separately.

BC323R/S Singlemode Dual Channel 3G/SDI, HD/SDI Fibre Optic Receiver

Module, Auto-Sensing for SDI, ASI, HD/SDI and 3G/SDI. Fitted with LC

connectors. 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

The BC323 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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