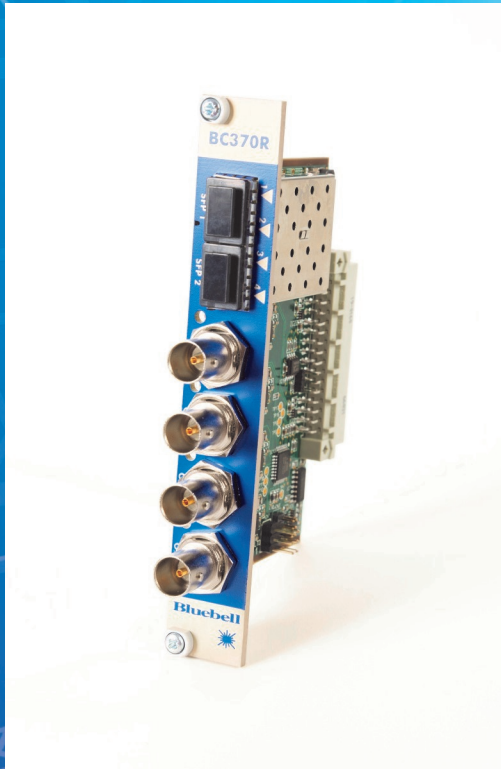


Bluebell*

BC Series Modular Fibre Optic Interface System



BC370R Quad Optical to Electrical Receiver

3G-SDI, HD-SDI, SD-SDI, ASI

The BC370R is a receiver card for the conversion of four independent 3G-SDI, HD-SDI, SD-SDI and ASI signals from an electrical signal via fibre optical cable. The incoming optical signal is fed to a trans-impedance and limiting amplifier before being electrically reclocked on the outputs. All Bluebell cards are designed to retain maximum integrity of the signal path offering excellent jitter free optical transport. Each channel will automatically operate in non-reclocking bypass mode when a non standard SDI signal is presented and handles data rates up to 3 Gb/s.

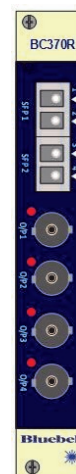
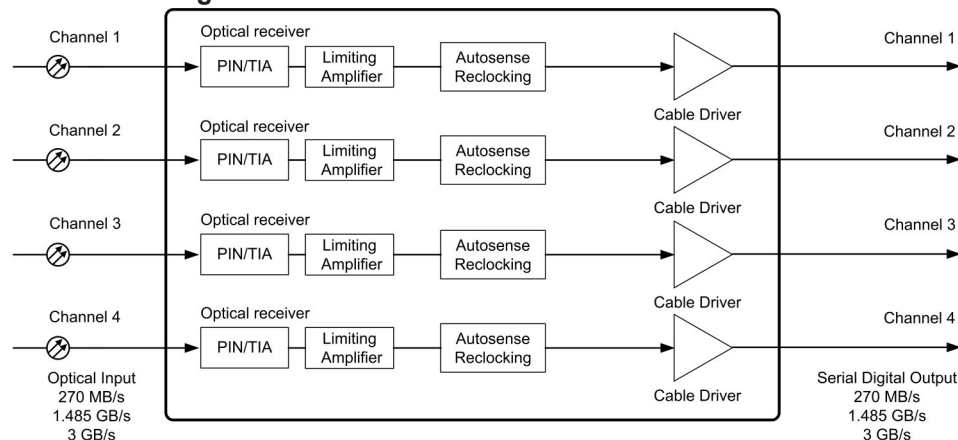
The BC370R is available in multimode, singlemode, WDM and CWDM variants to suit any fibre application.

The BC370R occupies a single slot in the BC100-3RU 19" rack-mounting frame which can hold up to 15 single slot cards. This dual functionality allows up to 60 channels of video to be transmitted or received from a single 3RU frame.

Signal and card monitoring is achieved through SNMP monitoring in the BM102 network card.

For stand alone applications the BC370R can be housed in an individual rugged enclosure.

Schematic Diagram BC370R



Specifications for each channel

Electrical Output

Standards	SMPTE 424M, SMPTE 292M, SMPTE 259M, SMPTE 297M, DVB-ASI
Connector	75 Ohm BNC per IEC 60169-8 Amendment 2
Return Loss	> 15 dB @ 1.485 Gb/s
Polarity	Non inverting
Signal Level	800 mV +/- 10%
DC Offset	0 +/- 0.5 V
Jitter	<0.15 UI line equalised
Format	Driven active loop out

Optical Input

Wavelength	1260-1620 nm See Ordering Information for multimode and singlemode variants
Sensitivity	> -25.0 dBm @ 3 Gb/s > -25.5 dBm @ 1.485 Mb/s > -26.0 dBm @ 270 Mb/s
Max I/P power	> -1 dBm
Data rate	50 Mb/s to 3 Gb/s

General card specifications

Depth	60 mm
Width	20 mm 4HP
Height	129 mm 3RU
Weight	100 g
Operating Temp	-30 to +70 °C
Power	3 W
Signal detect	LED on for loss of signal
No. of slots	1

Conformance

EMI/RFI:	Complies with 89/336/EEC, EN55022B, EN61000-4-2, EN61000-4-4-(Level 2), EN61000-4-4FTB, EN61000-4-5, EN61000-4-11
Electrical:	Complies with EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4
Laser Safety:	Dependent on SFP fitted. Complies with Class 1 laser product
RoHS:	Complies with Directive 2002/95/EC
Warranty	5 years

Ordering Information

BC370R/S	Singlemode Quad Channel 3G/SDI Fibre Optic Receiver Card, Auto-Sensing and reclocking for SDI, ASI, HD/SDI and 3G/SDI. Fitted with LC connectors as standard
BC370R	Quad Channel 3G/SDI Fibre Optic Receiver Card, Auto-Sensing and reclocking for SDI, ASI, HD/SDI and 3G/SDI. No Optics Fitted.

For all available enclosures and frames see "Universal Chassis and Power Supplies".