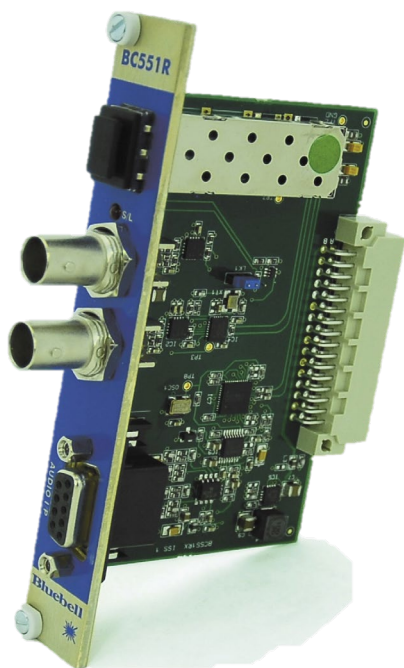


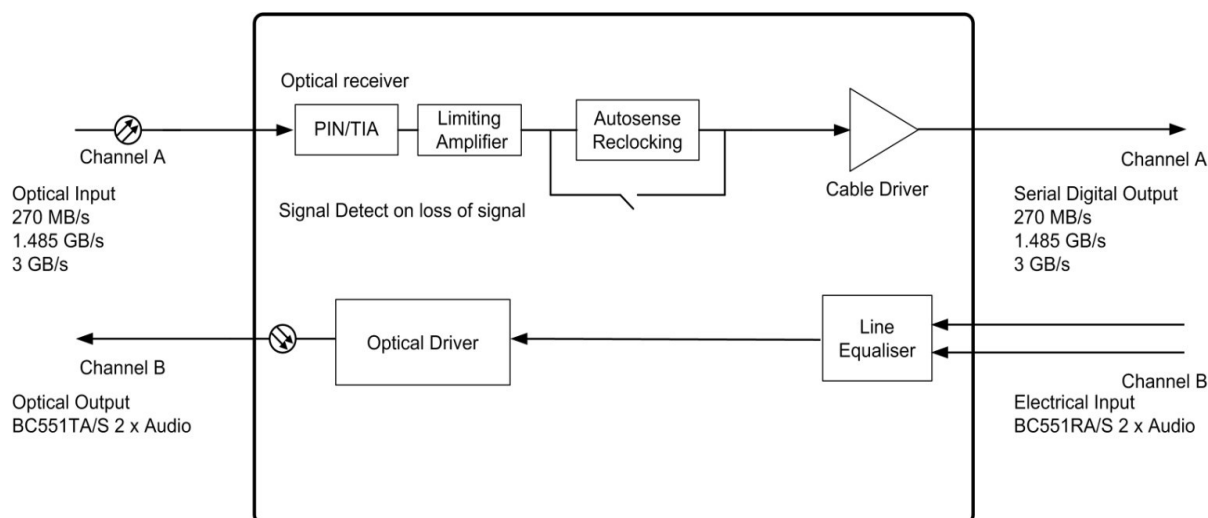
BC Series Modular Fibre Optic Interface System



Description:

- The BC551R is a receiver that converts optical signals into electrical 3G-SDI, HD-SDI, SD-SDI, and ASI outputs.
- The signal is amplified and electrically reclocked before output to ensure stability.
- Includes a reverse path on a second fibre for audio or control data, ideal for remote camera systems.
- Available in multimode, singlemode, WDM, and CWDM variants for different fibre needs.
- Occupies a single slot in the BC100-3RU rack, which holds up to 15 single-slot cards.
- Dual-function cards allow up to 30 video channels per 3RU frame.
- Supports SNMP monitoring via the BM102 card, or GP-output alarms via the BM100 module.
- Also available in a rugged standalone enclosure for individual use.

BC551R Schematic Diagram:



Specifications

Optical Input / Output	
Connector	1 x female LC as standard per channel See Ordering Information
Wavelength	1270-1610 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
Electrical Input Audio	
Standards	SMPTE 424M, SMPTE 292M, SMPTE 259M, SMPTE297M, 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
Polarity	1 x Non inverting, 1 x inverting
Signal Level	800 mV +/- 10%
DC Offset	0 +/- 0.5 V
Jitter	<0.15 UI line equalized
Format	Reclocked 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.

General Card Specifications	
Length	92 mm
Width	64 mm
Height	30 mm (Excluding connectors)
Weight	100 g
Operating Temp	-30 to +70 °C
Power	2 W
Voltage	4.5 to 17 V dc
Signal Detect	LED on for loss of signal
Audio Input	
Connector	9-way D connector
Impedance	86 kOhms
Bandwidth	20 Hz to 20 kHz +/- 0.25 dB System
Gain	0 dB, nominal +/- 0.5dB FormatInput level +9 dBu Maximum Ref 1 mW into 600 Ohm
Number	2 x Balanced Line Level Analogue Audio Noise
Ref	< -90 dB p-p weighted full scale
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
Optical Output	
Connector	1 x female LC/PC via SFP Module See Ordering Information
Wavelength	1310 nm, 1550 nm, CWDM See Ordering Information
Optical Power	-2 dBm @ 1310 nm (typical)

Ordering Information

BC551AR	3G/SDI, HD/SDI Fibre Optic Receiver Module, Auto-Sensing for SDI, ASI, HD/SDI and 3G/SDI (1310nm). With reverse audio channel on second fibre
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