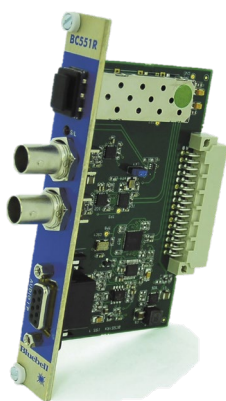


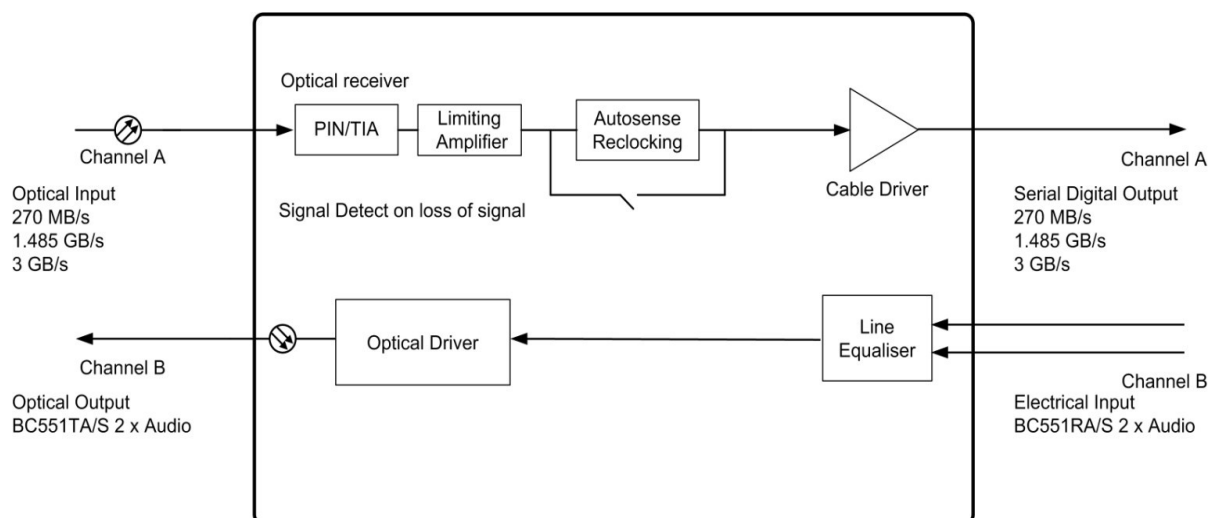
BC Series Modular Fibre Optic Interface System



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 Optical to Electrical Receiver



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/S	Singlemode 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
Universal Chassis and Power Supplies BC100-3RU	19" 3RU Chassis for up to 15 BCxxx Cards with optional Network Monitoring and facility for Dual Redundant Power Supplies (not supplied).
BM102	Network Monitoring Card with Ethernet connection for Slot-16
PS65 BC160	90-250VAC Power Supply for BC100-3RU or BB100-3RU Chassis 19" 1RU Chassis for up to 6 BCxxx Cards. Includes Dual Redundant Power Supplies. Optional Network Monitoring.



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