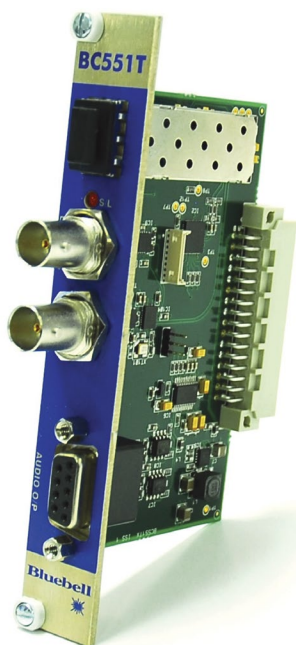


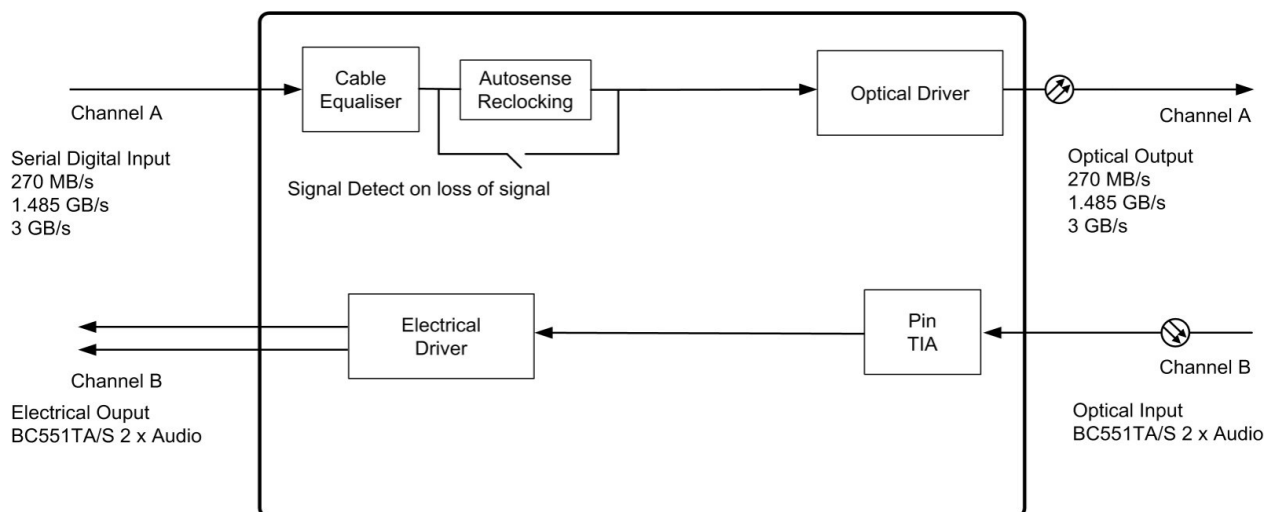
BC Series Modular Fibre Optic Interface System



Description:

- The BC551T is a transmitter for sending 3G-SDI, HD-SDI, SD-SDI, or DVB-ASI signals over fibre.
- It auto-senses, equalises, and reclocks the input before transmitting it on a single optical fibre.
- A reverse path for analogue audio is carried on a second fibre, ideal for remote camera systems.
- Available in multimode, singlemode, WDM, and CWDM variants to suit various fibre setups.
- Occupies a single slot in the BC100-3RU rack, which holds up to 15 single-slot cards.
- Supports SNMP monitoring via the BM102 network card or GP-output alarms via the BM100 module.
- Also available in a rugged standalone enclosure for individual use.

BC551T Schematic Diagram:



Specifications

Optical Input / Output

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 per channel
Return Loss	> 15 dB @ 1.485 Gb/s
Format	Reclocked (with bypass to support data rates down to 50 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

Electrical Input Audio

Connector	9-way D connector
Impedance	100 differential
Bandwidth	20 Hz to 20 kHz +/- 0.25
dB System gain	0 dB, nominal +/- 0.5dB
Format	+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

Audio Input

Connector	1 x female LC as standard per channel
Wavelength	1310 nm, 1550 nm, See Ordering Information
Optical Power	-2 dBm @ 1310 nm(typical) -2 dBm @ 1510 nm (typical) 0 dBm @ CWDM (typical)

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

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

BC551AT	3G/SDI, HD/SDI Fibre Optic Transmitter Module, Auto-Sensing for SDI, ASI, HD/SDI and 3G/SDI (1310nm). With 2x reverse audio channel on second fibre
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