

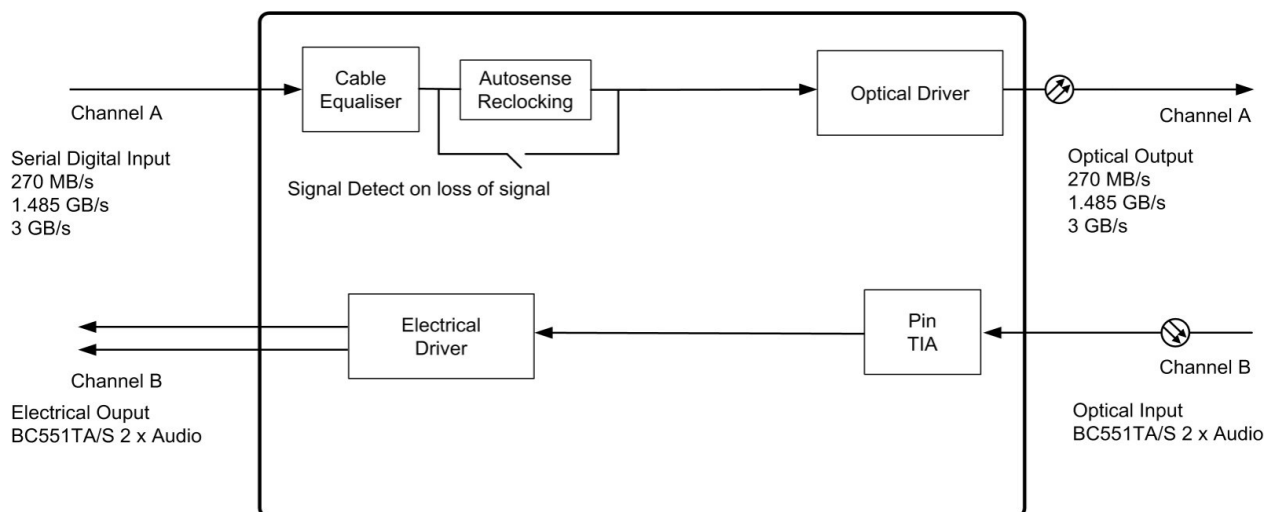
BC Series Modular Fibre Optic Interface System



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 Electrical to Optical Transmitter



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/S	Singlemode 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
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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