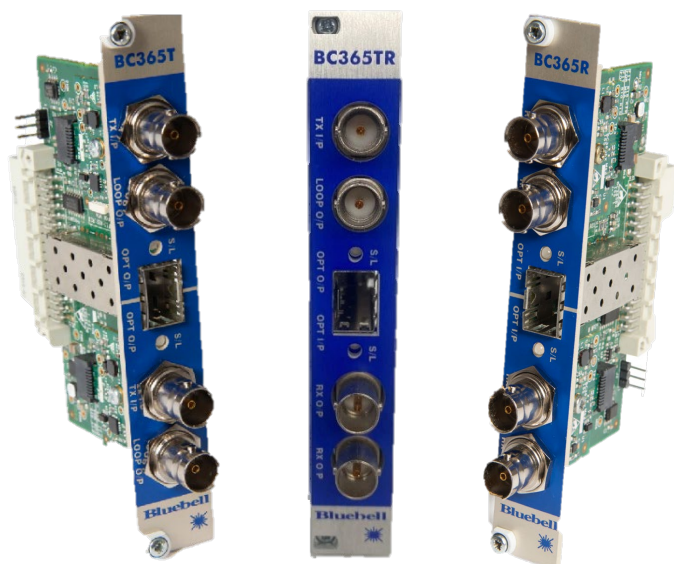


BC365 Series Modular Fibre Optic Interface System

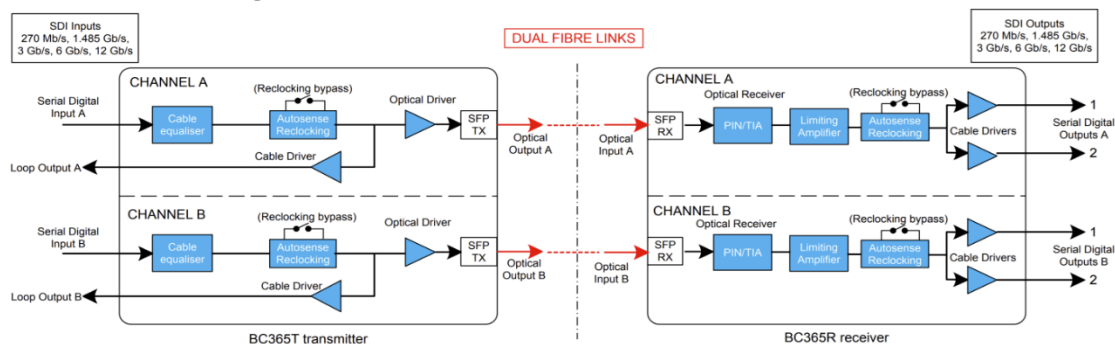


Description:

- Transport two independent 12G-SDI, 6G-SDI, 3G-SDI, HD-SDI, SD-SDI, and ASI signals over a dual fibre optic link.
- Available in four variants:
- **BC365T** – Dual electrical-to-optical with equalised and reclocked loop-through outputs.
- **BC365R** – Dual optical-to-electrical with dual buffered outputs.
- **BC365TR** – Transceiver module, fitted with single Tx and single Rx Channel
- **BC365A** – Adaptive module with automatic configuration of I/Os.
- Electrical SDI I/O via standard BNC connectors; optical I/O via dual female LC connectors in SFP carriers.
- Auto-sensing with equalisation and reclocking to minimise jitter and maintain signal integrity (bypass option available).
- Bicolour LED indicators confirm valid signal on each input.
- BC365T available in CWDM wavelengths (1270– 1610 nm); BC365R features wideband optical receivers.
- Compatible with all BC Series racks and enclosures.
- Status reporting to BC100i/BC160i rack's built-in monitoring system; enhanced SNMP reporting available via BM102 network card.

BC365 Schematic diagram:

BC365T/BC365R pair:



BC365TR/BC365TR pair

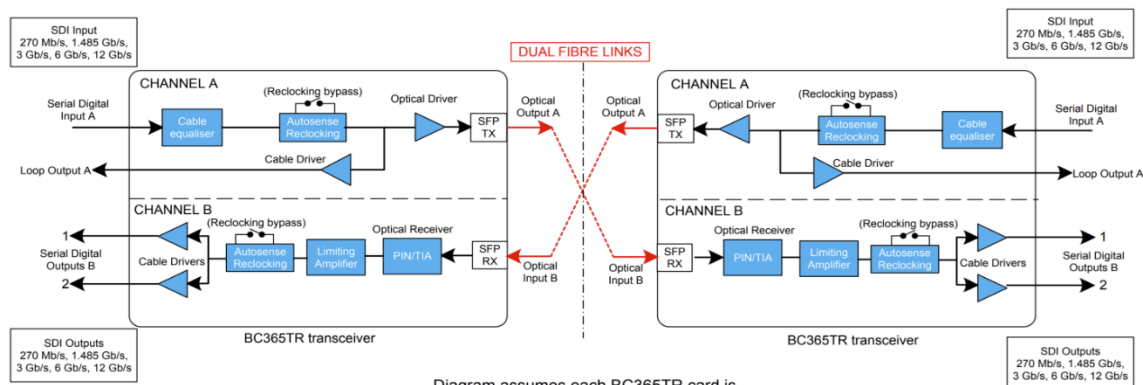


Diagram assumes each BC365TR card is mounted in a BC100/100i rack frame

Specifications

	Transmit Channel (Tx)	Receive channel (Rx)
Electrical Inputs and Outputs		
SDI Standards – conformities	Compliant with: SMPTE ST 2082, SMPTE ST 2081, SMPTE ST 424M, SMPTE 292M, SMPTE 259M, SMPTE 297M	
Signal Standards	12G-SDI, 6G-SDI, 3G-SDI, HD-SDI, SD-SDI, DVB-ASI, MADI AT 125 Mb/s	
Equaliser	Automatic to: SD-SDI: 300 m @ 270 Mb/s HD-SDI: 240 m @ 1.485 Gb/s 3G-SDI: 180 m @ 2.97 Gb/s 6G-SDI: 95 m @ 5.94 Gb/s 12G-SDI: 70 m @ 11.88 Gb/s <15 dB, 5 Mb/s – 1.485 Gb/s <17 dB, 5 Mb/s – 1.485 Gb/s	
Format	Re-clocked (may be bypassed)	
Polarity		Non Inverting
Signal level		800 mV +/-10%
Timing Jitter		0.2 UI line equalised @ 270 Mb/s 1 UI line equalised @ 1.485 Gb/s 2 UI line equalised @ 2.97 Gb/s 4 UI line equalised @ 5.94 Gb/s 8 UI line equalised @ 11.88 Gb/s
Optical Inputs and Outputs		
Connector	Optical specs determined by SFP	
Wavelength		
Optical Power		
Sensitivity		
Laser Safety		
Monitoring		
Front panel	S/L: bi-colour LED per electrical input or output indicating a valid and locked signal	
External BC100i/BC160i rack frame	Bi-colour LED per channel indicating lock status of electrical inputs	Bi-colour LED per channel indicating lock status of optical inputs
External via BC100i/ BC160i rack frame screen or BM102i monitoring web page	Bi-colour virtual LED per channel indicating lock status of electrical inputs	Bi-colour virtual LED per channel indicating lock status of optical inputs
SNMP monitoring (via BC100i/BC160i rack frame with BM102i card fitted)	Lock status of each electrical input	Lock status of each optical input
General		
Input	6 – 17 V	
Power	BC365T, BC365TR, BC365A: 4.2W BC365R: 3W	
Depth	75 mm (60 mm excluding connectors)	
Width	20 mm	
Height	129 mm	
Weight	100 g (Excluding SFP)	
Operating Temp	-30 to +70 °C	



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