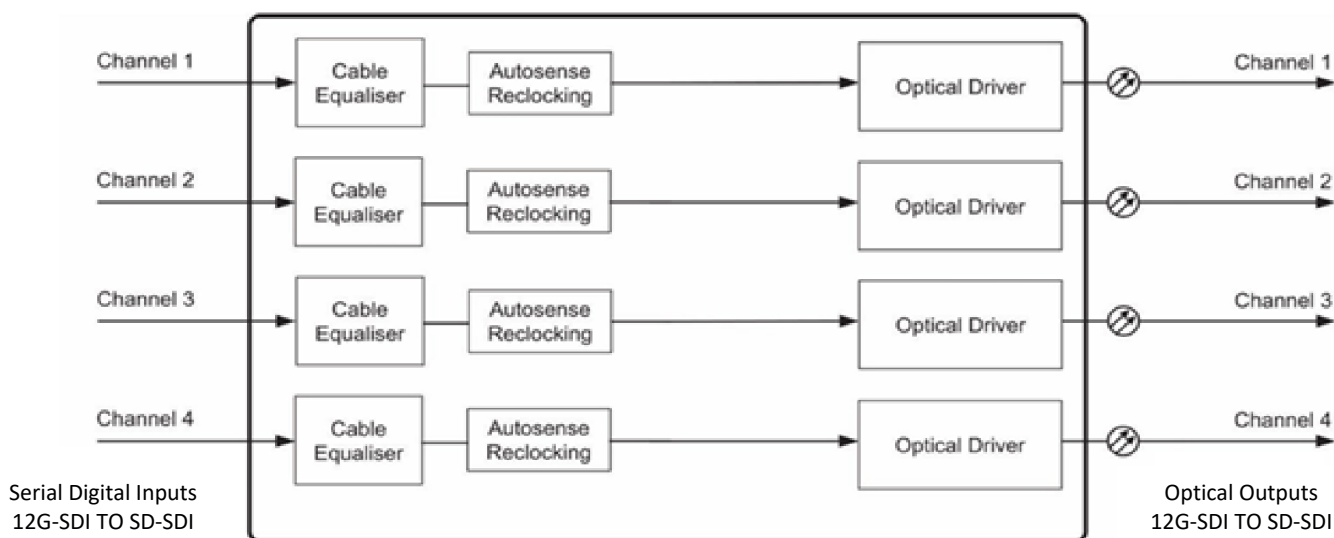# Bluebell ☀

BC Series Modular Fibre Optic Interface System

Description:

- Transport 4K SDI signals over fibre optic links, ideal for OB, studios, sports, and live events.
- Supports multiple standards: 12G, 6G, 3G, HD, SD-SDI, and MADI.
- Variants include:
  – BC372T: Dual SDI inputs → dual fibre outputs.
  – BC372R: Dual fibre inputs → dual SDI outputs.
  – BC372TR: One channel acts as transmitter, one as receiver.
- Typically used in pairs: BC372T at the camera/remote end, BC372R at the control centre; BC372TR enables bidirectional operation.
- Electrical SDI I/O via 75 ohm BNC connectors; optical I/O via dual LC connectors in SFP carriers.
- Operates on singlemode fibre at 1310 nm; CWDM wavelength options available, receivers are wideband.
- Compact modular cards designed for BC100/BC160 racks, with SNMP monitoring available via BM102 card; also available in rugged standalone enclosures or BN324 throw-down units for OB use.

BC372T Quad Electrical to Optical Transmitter Receiver

www.bluebell.tv

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Email: sales@bluebell.tv

Specifications

	BC372T	BC372R
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	SD-SDI, HD-SDI, 3G-SDI, 6G-SDI, 12G-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 0.2 UI line equalised @ 270 Mb/s
Optical Inputs and Outputs		
Most specs determined by SFP fitted. Typical values given		
Connector	4 x Female LC	
Wavelength	1270 – 1610 nm	
Optical Power	15 dBm @1310 nm multimode	

	BC372T	BC372R
Sensitivity		>-25 dBm @ 1.485 Gb/s >-22 dBm @ 2.97 Gb/s
Monitoring	S/L: bi-colour LED per electrical input or output indicating a valid and locked signal	
External via BC100/ BC160	Bi-colour LED per channel indicating lock status of Inputs 1 and 2	Bi-colour LED per channel indicating lock status of optical inputs
rack frame	Bi-colour virtual LED per channel indicating lock status of Inputs	Bi-colour virtual LED per channel indicating lock status of optical inputs
External via BC100/ BC160 rack frame with BM102 card fitted	Lock status of Inputs 1 and	Lock status of each optical
SNMP monitoring via BC100/BC160 rack frame with BM102 card fitted		
Electrical	Complies with 89/336/EEC, EN55032B, EN61000-4-2 Complies with EN61000-4-4FTB, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4	
Laser Safety	Complies with Class 1 laser product	
General		
Input	6 – 18 V	
Power	3 W	
Depth	75 mm (60 mm excluding connectors)	
Width	20 mm	
Height	129 mm	
Weight	100 g (Excluding SFP)	
Operating Temp	-30 to +70 °C	

BC372T   Quad Channel 12G/SDI Fibre Optic Transmitter Card, Auto-Sensing and reclocking for SDI, ASI, HD/SDI 3G-SDI, 6G-SDI, and 12G/SDI. No Optics Fitted.

BC372R   Quad Channel 12G/SDI Fibre Optic Receiver Card, Auto-Sensing and reclocking for SDI, ASI, HD/SDI , 3G-SDI, 6G-SDI and 12G/SDI. No Optics Fitted.

BC372TR   Singlemode Quad Channel 12G/SDI Fibre Optic Transceiver Card, Auto-Sensing and relocking for SDI, ASI,HD/SDI, 3G-SDI, 6G-SDI, and 12G/SDI. Fitted with LC connectors as standard

                  For all available enclosures and frames see "Universal Chassis and Power Supplies".

Bluebell ✳

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