

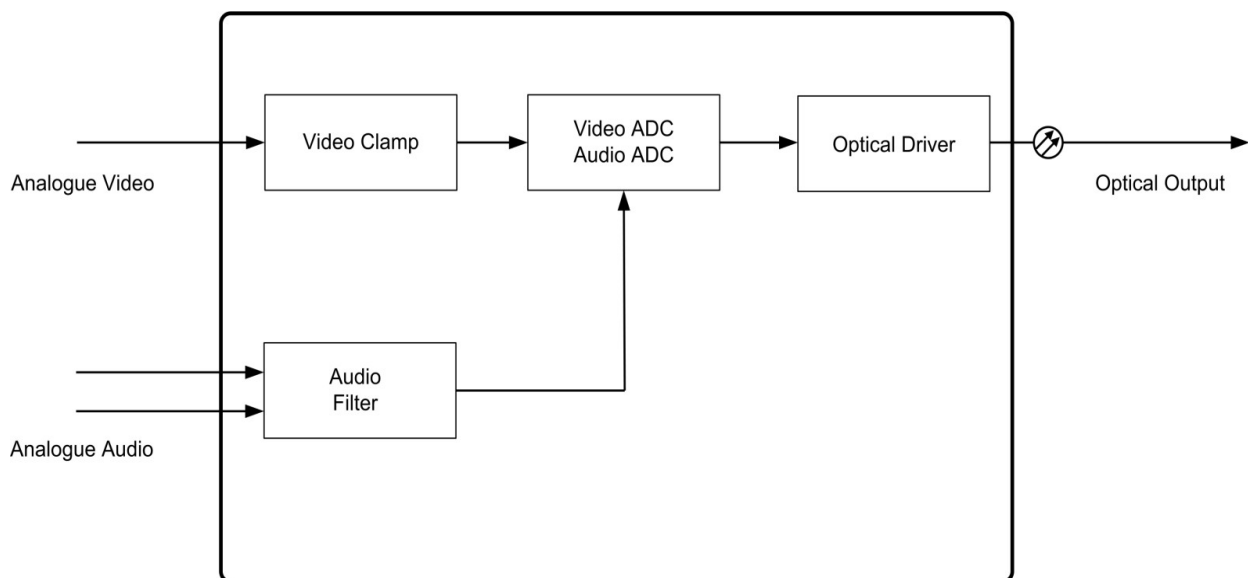
BC Series Modular Fibre Optic Interface System



Description:

- The BC501T is a transmitter that converts composite analogue video and two analogue audio channels into optical signals for fibre transmission.
- The video signal is clamped, digitised, and sent over a single optical fibre.
- Two separate audio channels are filtered, digitised, and sent to the optical driver.
- It can function as an audio-only transmission system, independent of video input.
- Designed for high signal integrity and jitter-free optical performance.
- Passes tri-level syncs, VITS, SIS, teletext data, and Timecode.
- Can be used with an optical splitter to distribute syncs and Timecode within a facility.
- Available in multimode, singlemode, WDM, and CWDM variants for different fibre applications.
- Occupies a single slot in the BC100-3RU frame, which can hold up to 15 single-slot cards.
- Some BC Series cards support dual functionality, enabling up to 30 video channels per frame.
- Supports SNMP monitoring with the BM102 network card.
- Also available in a rugged standalone enclosure for individual use

BC501T Schematic Diagram:



Specifications

Electrical Input Video

Standards	Composite 1V pk-pk PAL, NTSC, SECAM
Connector	75 Ohm BNC
Diff. Phase	< 1°
Diff. Gain	< 1% (at sub-carrier 3.58/4.43 MHz)

Electrical Input Audio

Format	2 x Balanced Line Level Analogue Audio
Connector	1 x D9 Female
Format	20 Hz to 20 kHz +/-0.25 dB 0 dB system gain 18dBu ref. 1 mW into 600R Adjustable
Impedance	100 kOhm

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)

General Card Specifications

Depth	86 mm
Width	20 mm 4HP
Height	129 mm 3RU
Weight	100 g
Operating Temp	-30 to +70 °C
Power	2 W
No. of Slots	1

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

Ordering Information

BC501T	Composite Video + 2 x Balanced Line Level Analogue Audio Transmitter Card
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Bluebell

Bluebell Opticom Limited,
Unit 2 The Quadrant,
Howarth Rd,
Maidenhead,
Berks,
SL6 1AP, UK
Tel: +44 (0) 1628 510055,
Email: sales@bluebell.tv
Website: www.bluebell.tv

