

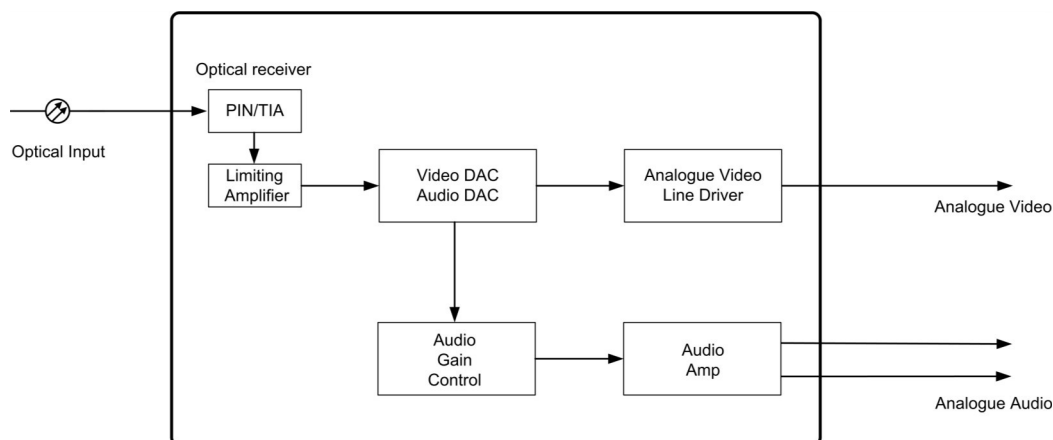
BC Series Modular Fibre Optic Interface System



Description:

- The BC501R is a receiver that converts optical signals into composite analogue video and two analogue audio channels.
- It uses a trans-impedance and limiting amplifier before converting the signal to analogue and sending it to a video line driver.
- Two separate audio channels are amplified and output via the rear panel.
- It can operate as an audio-only transmission system and does not rely on a video signal.
- Designed for high signal integrity and jitter-free optical transport.
- Available in multimode, singlemode, WDM, and CWDM variants for various fibre applications.
- Supports tri-level syncs, VITS, SIS, teletext data, and Timecode.
- Can use an optical splitter to distribute syncs and Timecode within a facility.
- Occupies a single slot in the BC100-3RU frame, which holds up to 15 single-slot cards.
- Some BC cards offer dual functionality, allowing up to 30 video channels per 3RU frame.
- Supports SNMP monitoring when used with the BM102 network card.
- Also available in a rugged standalone enclosure for individual use.

BC501R Single Channel Optical to Electrical Converter



Specifications

Optical Input	
Connector	1 x female LC/PC via SFP Module See Ordering Information
Wavelength	Wideband Receiver 1260 nm to 1610 nm See Ordering Information
Sensitivity	> - 3 dB to – 30 dB (Typical, SFP Dependent) Max I/P power > -1 dBm (Typical, SFP Dependent)
Electrical Output 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 Output 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	< 50 Ohm

General Card Specifications	
Depth	86 mm
Width	20 mm 4HP
Height	129 mm 3RU
Operating Temp	-30 to +70 °C
Power	2.4 W
No. of slots	1
Excluding Connectors	
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

BC501 Multimode Composite Video + 2 x Balanced Line Level Analogue Audio Receiver Card

BC501R/S Singlemode Composite Video + 2 x Balanced Line Level Analogue
Audio Receiver Card

Fitted with LC connectors as standard

**For all available enclosures and frames see section “Universal Chassis and Power
Supplies”.**



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