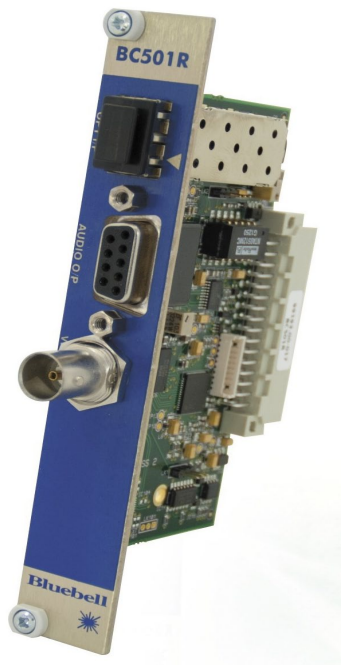


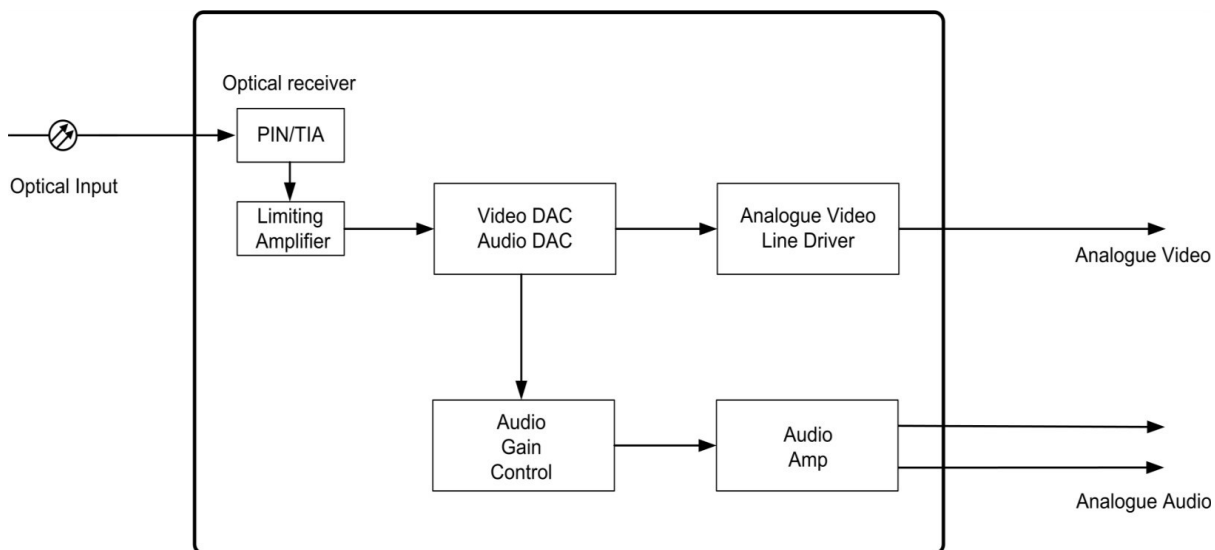
BC Series Modular Fibre Optic Interface System



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 Schematic Diagram:



Specifications			
Optical Input		General Card Specifications	
Connector	1 x female LC/PC via SFP Module See Ordering Information	Depth	86 mm
Wavelength	Wideband Receiver 1260 nm to 1610 nm See Ordering Information	Width	20 mm 4HP
Sensitivity	> - 3 dB to – 30 dB	Height	129 mm 3RU
	(Typical, SFP Dependent)	Operating Temp	-30 to +70 °C
	Max I/P power > -1 dBm (Typical, SFP Dependent)	Power	2.4 W
Electrical Output Video		No. of slots	1
Standards	Composite 1V pk-pk PAL, NTSC, SECAM	Excluding Connectors	
Connector	75 Ohm BNC	Conformance	
Diff. Phase	< 1°	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
Diff. Gain	< 1% (at sub-carrier 3.58/4.43 MHz)	Electrical	Complies with EN61000-6-1 EN61000-6-2, EN61000-6-3, EN61000-6-4
Electrical Output Audio		Laser Safety	Dependent on SFP fitted Complies with Class 1 laser product
Format	2 x Balanced Line Level Analogue Audio	RoHS	Complies with Directive 2002/95/EC
Connector	1 x D9 Female	Warranty	5 Years
Format	20 Hz to 20 kHz +/-0.25 dB 0 dB system gain 18dBu ref. 1 mW into 600R adjustable		
Impedance	< 50 Ohm		

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



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