

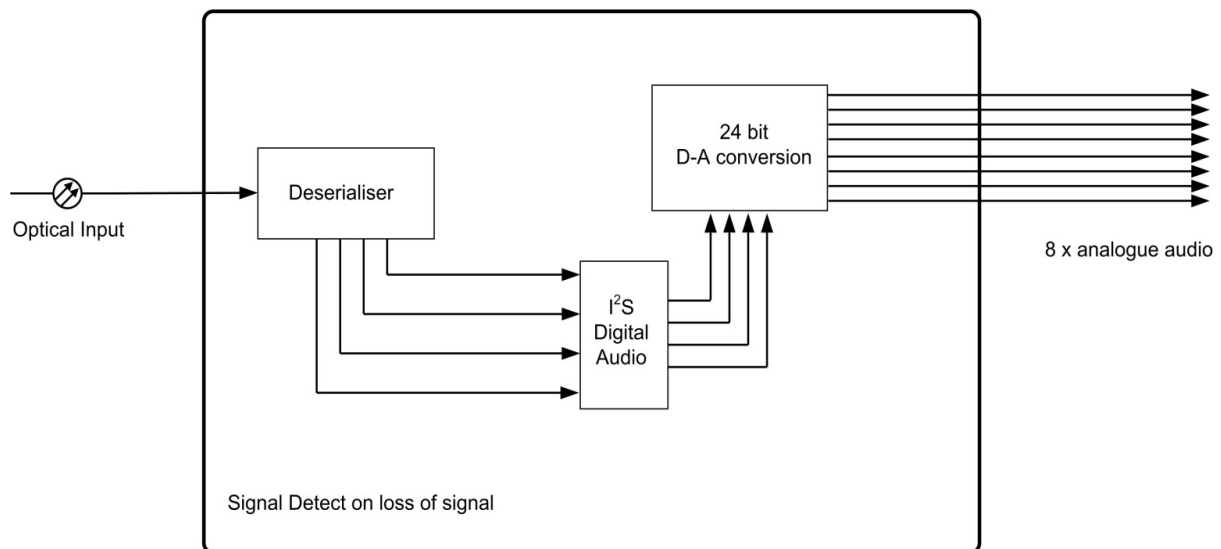
BC Series Modular Fibre Optic Interface System



Description:

- The BC620R is a receiver that transports multiple channels of analogue line-level audio over a single optical fibre.
- Audio inputs are buffered and converted using 24-bit A/D conversion before being multiplexed into an optical data stream.
- Ideal for multichannel audio transport where audio is carried separately from video or embedded signals.
- Available in multimode, singlemode, WDM, and CWDM variants to suit various fibre setups.
- Can be paired with the BC630T to convert AES inputs into analogue audio outputs.
- Occupies a single slot in the BC100-3RU frame, which supports up to 15 single-slot cards.
- Some BC Series cards offer dual functionality, enabling up to 30 video channels in one frame.
- Supports SNMP monitoring via the BM101 card, with optional GP-output alarms via the BM100 module.
- Also available in a rugged standalone enclosure for individual applications.

BC620R Schematic Diagram:



Specifications

Optical Input	
Connector	1 x female LC
Wavelength	1200-1610 nm See Ordering Information for multimode and singlemode variants
Sensitivity	> -24 dBm @ 1.25 Gb/s > -28 dBm @ 0.62 Gb/s > -28 dBm @ 155 Mb/s
Max I/P Power	> -1 dBm
Electrical Output Audio	
Connector	26-way D connector, Impedance 44 Ohm differential output
Bandwidth	20 Hz to 20 kHz +/- 0.25 dB
System gain	0 dB, nominal +/- 0.5dB
Format	Output level +18 dBu Maximum Ref 1 mW into 600 Ohm
Number	8 x Balanced Line Level Analogue Audio
Noise ref	< -90 dB p-p weighted full scale
Out Imp	< 50 Ohm

General Card Specifications	
Depth	60 mm
Width	20 mm 4TE
Height	100 mm (3RU)
Weight	100 g
Operating Temp	-30 to +70 °C
Power	2.5 W
Signal Detect	LED on for signal loss
No. of slots	1
Conformance	
EMI/RFI	Complies with 89/336/EEC
Electrical	Complies with EN 61000 6-1, EN61000-6-2
Laser Safety	Complies with Class 1 laser product 24 CFR 1040.10 & 1040.11
RoHS	Complies with Directive 2002/95/EC
Warranty	5 years

Ordering Information

BC620R	Optical Receiver Card for 8 x Analogue Audio Signals.
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Bluebell

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