Bluebell ✳

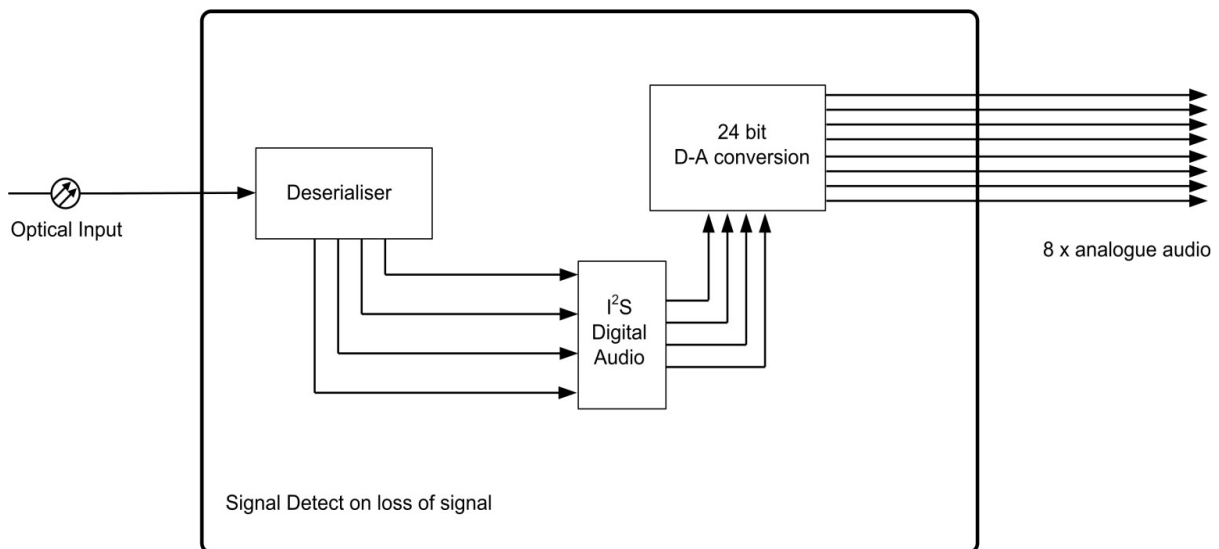## BC Series Modular Fibre Optic Interface System

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 8 Channel Balanced Analogue Audio De-Multiplexer   Audio

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 ^{0}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/M — Multimode Optical Receiver Card for 8 x Analogue Audio Signals.
BC620R/S — Singlemode Optical Receiver Card for 8 x Analogue Audio Signals. All versions LC connectors as standard.

Universal Chassis and Power Supplies

BC100-3RU — 19" 3RU Chassis for up to 15 BCxxx Cards with optional Network Monitoring and facility for Dual Redundant Power Supplies (not supplied).
BC100-3RU/48V — 19" 3RU Chassis for up to 15 BCxxx Cards with optional Network Monitoring and facility for Dual Redundant Power Supplies (not supplied). Fitted with 48V dc input.
BM100 — Network Monitoring Card with GPI Output on a SCSI Connector for Slot-16
BM101 — Network Monitoring Card with Ethernet connection for Slot-16
BC140 — Extender Card for BC100 3RU Chassis
PS65 — 90-250VAC Power Supply for BC100-3RU or BB100-3RU Chassis
BC160 — 19" 1RU Chassis for up to 6 BCxxx Cards. Includes Dual Redundant Power Supplies. Optional Network Monitoring.
BC110 — Single Slot Chassis with Universal Mains Power Supply
BC120 — Triple Slot Chassis with Universal Mains Power Supply

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