# www.bluebell.tv

# Buebell\*

# **BC Series Modular Fibre Optic Interface System**



# BC620R 8 Channel Balanced Analogue Audio De-Multiplexer

The BC620R is a receiver for the reception of multiple channels of analogue line level audio over one optical fibre. All inputs are buffered then converted using full 24 bit A/D conversion then multiplexed onto a single optical data stream.

The BC620R is particularly suited for multichannel audio transport and applications that require the audio to be carried independently to video or embedded audio signals.

All Bluebell cards are designed to retain maximum integrity of the signal path offering excellent jitter free optical transport. The BC620R is available in multimode, singlemode, WDM and CWDM variants to suit any fibre application.

The BC620R can be used with a BC630T allowing AES inputs to feed analogue outputs.

The BC620R occupies a single slot in the BC100-3RU 19" rack-mounting frame which can hold up to 15 single slot cards. Some BC Series processing cards have dual functionality allowing up to 30 channels of video to be transmitted or received from a single 3RU frame.

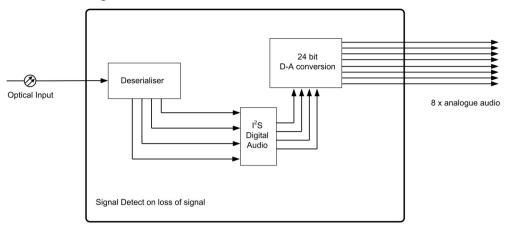
Signal and card monitoring is achieved through SNMP monitoring in the BM101 network card. Alternatively GP-Output alarms can be triggered via the BM100 module. For stand alone applications the BC620R can be housed in an individual rugged enclosure.

Audio

**Rear Panel** 

BC620R

### Schematic Diagram BC620R



### **Specifications**

**Optical Input** 

1 x female LC Connector 1200-1610 nm Wavelength

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, 44 Ohm differential output Impedance 20 Hz to 20 kHz +/- 0.25 dB Bandwidth 0 dB, nominal +/- 0.5dB System Gain 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

60 mm Depth Width 20 mm 4TE 100 mm (3RU) Height Weight 100 g Operating Temp -30 to +70 °C

Power 2.5 W

Signal detect LED on for loss of signal

No. of slots

Conformance

EMI/RFI Complies with 89/336/EEC

Complies with EN 61000-6-1, EN61000-6-2 Electrical 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.

Network Monitoring Card with GPI Output on a SCSI Connector for Slot-16 BM100 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



