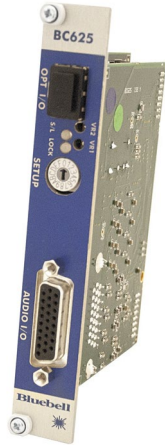# Bluebell ✳

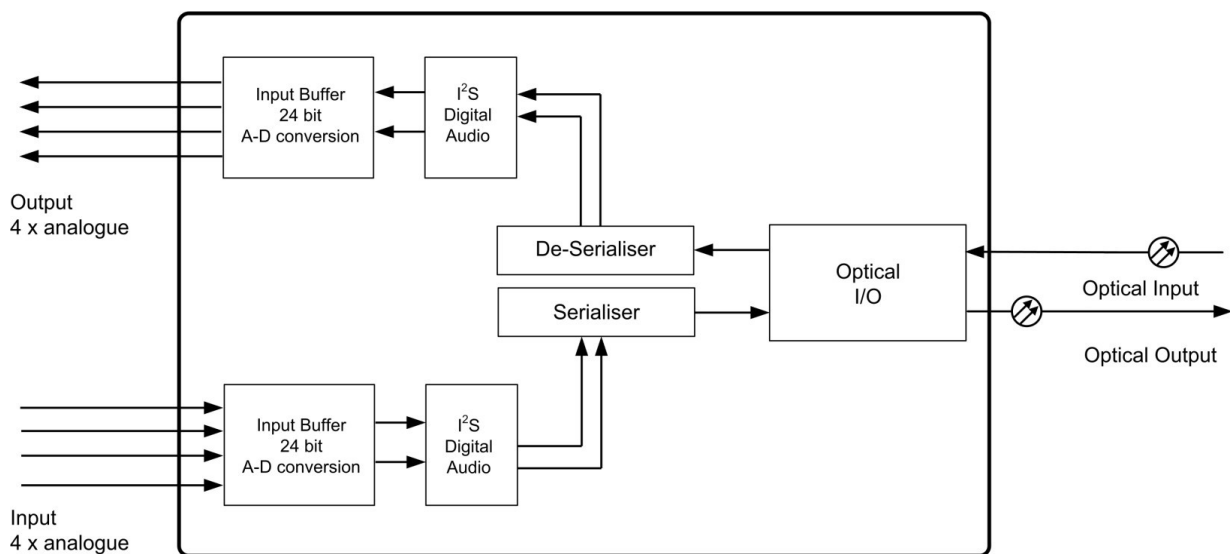## BC Series Modular Fibre Optic Interface System

Description:

- The BC625 enables bidirectional transmission of multiple channels of analogue line-level audio over a single optical fibre.
- Audio inputs are buffered and converted using 24-bit A/D conversion, then multiplexed into one optical data stream.
- Ideal for multichannel audio transport where audio needs to be carried independently of video or embedded signals.
- Available in multimode, singlemode, WDM, and CWDM variants for flexible fibre deployment.
- Occupies a single slot in the BC100-3RU frame, which supports up to 15 single-slot cards.
- Some BC Series cards support dual functionality, enabling up to 30 video channels per 3RU frame.
- Monitoring is supported via SNMP through the BM102 network card.
- Also available in a rugged standalone enclosure for individual use.

BC625 4 Channel Balanced Analogue Audio Transceiver   Audio

Electrical Input Audio	
Connector	26-way D connector
Impedance	24 kOhm differential input
Bandwidth	20 Hz to 20 kHz +/- 0.25 dB
System Gain	0 dB, nominal +/- 0.5dB
Format	Input level +24 dBu Maximum Ref 1 mW into 600 Ohm
Number	4 x Balanced Line Level Analogue Audio
Noise ref	< -90 dB p-p weighted full scale
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	4 x Balanced Line Level Analogue Audio
Noise ref	< -90 dB p-p weighted full scale
Out Imp	< 50 Ohm
Optical Input/Output	
Connector	1 x female LC per direction
Wavelength	850 nm, 1310 nm, 1550 nm, CWDM See Ordering Information
Optical Power	-2 dBm @ 1310 nm (typical) -2 dBm @ 1510 nm (typical) 0 dBm @ CWDM (typical)

General Card Specifications	
Depth	60 mm
Width	20 mm 4TE
Height	129 mm (3RU)
Weight	100 g
Operating Temp	-30 to +70 ^{0}C
Power	3.5 W
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

BC620T/M	Multimode Optical Transmitter Card for 8 x Analogue Audio Signals. BC620T/S/13 Singlemode Optical Transmitter Card for 8 x Analogue Audio Signals (1310nm).
BC620T/S/15	Singlemode Optical Transmitter Card for 8 x Analogue Audio Signals (1550nm).
BC620T/S/CWDM	Singlemode Optical Transmitter Card for 8 x Analogue Audio Signals (Dedicated CWDM Tuned Laser, Wavelength to suit ITU Grid Spacing - see CWDM Ordering Matrix). All versions LC connectors as standard. Contact the Sales Office to discuss alternatives.

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