

## BC Series Modular Fibre Optic Interface System



### **BC625      4 Channel Balanced Analogue Audio Transceiver**

### **Audio**

The BC625 provides bidirectional transmission of multiple channels of analogue line level audio over optical fibre. All inputs are buffered then converted using full 24 bit A/D conversion then multiplexed onto a single optical data stream.

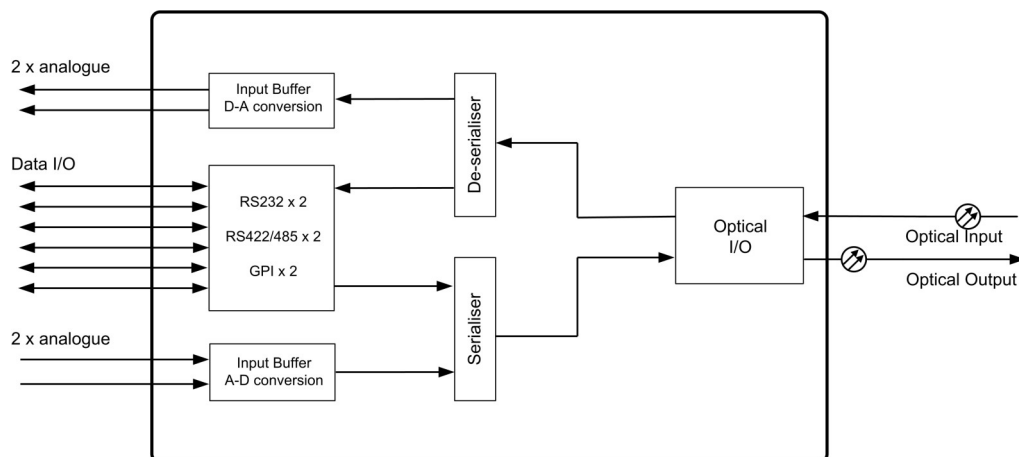
The BC625 is particularly suited for multichannel audio transport and applications that require the audio to be carried independently to video or embedded audio signals.

All Bluebell cards are designed to retain maximum integrity of the signal path offering excellent jitter free optical transport. The BC625 is available in multimode, singlemode, WDM and CWDM variants to suit any fibre application.

The BC625 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 BM102 network card. For stand alone applications the BC625 can be housed in an individual rugged enclosure.

## Schematic Diagram BC625



## Rear Panel



## Specifications

## 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 4HP
Height	129 mm 3RU
Weight	100 g
Operating Temp	-30 to +70 °C
Power	3.5 W
No. of slots	1

## Conformance

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
Electrical:	Complies with EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4
Laser Safety:	Dependent on SFP fitted. Complies with Class 1 laser product
RoHS:	Complies with Directive 2002/95/EC
Warranty	5 years

## Ordering Information

BC625/M  
BC625/S/13/WB  
BC625/S/15/WB  
BC625/S/CWDM/xx/WB

Multimode Optical Transceiver Card for 4 x bidirectional Analogue Audio Signals.  
Singlemode Optical Transceiver Card for 4 x bidirectional Analogue Audio Signals (1310nm).  
Singlemode Optical Transceiver Card for 4 x bidirectional Analogue Audio Signals (1550nm).  
Singlemode Optical Transceiver Card for 4 x bidirectional Analogue Audio Signals (Dedicated CWDM Tuned Laser, Wavelength to suit ITU Grid Spacing - see CWDM Ordering Matrix).

Fitted with LC connectors as standard.

Factory Default SMPTE Compatible Audio Settings.  
For EBU Compatible Audio Settings please state at time of order.

For all available enclosures and frames see section "Universal Chassis and Power Supplies".