

## BC SERIES MODULAR FIBRE OPTIC INTERFACE SYSTEM



### **BC623 Electrical to Optical Transceivers Audio, control** **BC723 Electrical to Optical Transceivers Control**

The BC623 is a multi-format converter for use with broadcast analogue audio and control signals.

Two bi-directional analogue audio signals are provided over 2 fibres. Additional control data and GPI signals are also transmitted over the same pair of fibres. The BC623 is ideally suited to linking audio intercom panels remotely over fibre.

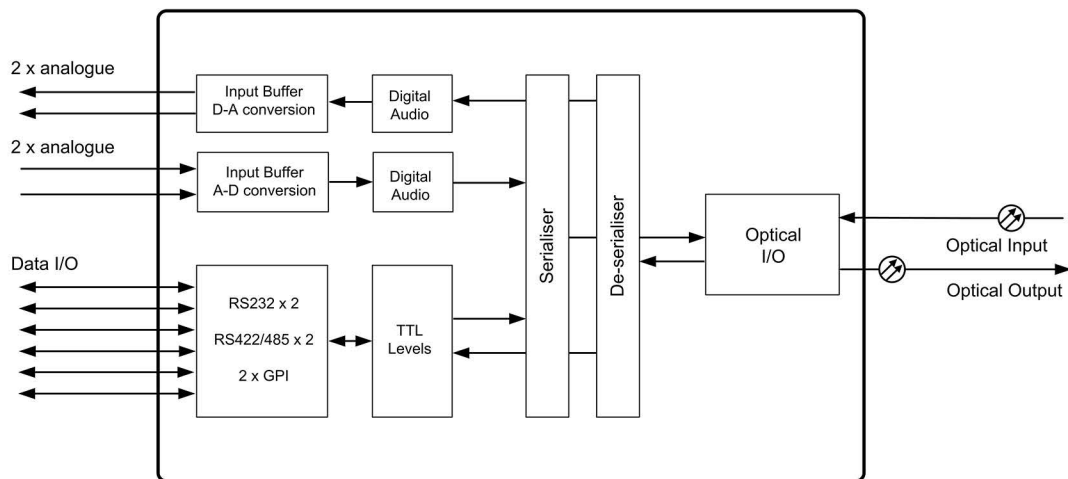
The BC623 can be supplied in multimode, singlemode and CWDM variations to suit all applications and is a perfect complement to the Bluebell BC Series modular interface system. All Bluebell cards are designed to retain maximum integrity of the signal path offering excellent jitter free optical transport.

The BC623 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 applications requiring serial control data only the BN723 is available.**

## Schematic Diagram for BC623



## Specifications

### Electrical Input/Audio

Connector	44 pin D connector
Format	2 x analogue audio <sup>1</sup> , 20 Hz– 20 kHz ± 0.3 dB
	2 x RS232 Bi-directional
	2 x RS422/485 Bi-directional
	2 x GPI Bi-directional

### Optical Output

Connector 1 x female LC as standard per channel  
 TX wavelength and power plus receive sensitivity are defined by the SFP fitted.

Typical values are outlined below

TX Power	-2 dBm @ 1310 nm (typical)
	-2 dBm @ 1510 nm (typical)
	0 dBm @ CWDM (typical)

RX Wavelength 1200-1610 nm

RX Sensitivity > -24 dBm @ 1.25 Gb/s

Max I/P power > -1 dBm

<sup>1</sup>Note Audio is designed for talkback system with amplitude restricted to +6 dBu

See Ordering Information for the different multimode and singlemode variants.

### General card specifications

Depth	60mm
Width	20mm 4HP
Height	100mm 3RU
Weight	100g
Operating Temp	-30 to +70°C
Power	3.5W
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

BC623/M	Multimode Audio and Data Fibre Optic Transceiver Module. Provides 2 x analogue audio, 2 x RS232, 2 x RS422/485 and 2 x GPI over 2 fibres. Fitted with LC connectors.
BC623/S/13/WB	Singlemode Audio and Data Fibre Optic Transceiver Module. Provides 2 x analogue audio, 2 x RS232, 2 x RS422/485 and 2 x GPI over 2 fibres. (1310 nm TX and Wideband receiver). Fitted with LC connectors.
BC623/S/15/WB	Singlemode Audio and Data Fibre Optic Transceiver Module. Provides 2 x analogue audio, 2 x RS232, 2 x RS422/485 and 2 x GPI over 2 fibres. (1550 nm TX and Wideband receiver). Fitted with LC connectors.
BC623/S/CWDM/WB	Singlemode Audio and Data Fibre Optic Transceiver Module. Provides 2 x analogue audio, 2 x RS232, 2 x RS422/485 and 2 x GPI over 2 fibres. (CWDM TX and Wideband receiver). Fitted with LC connectors

For BN723 data only versions replace BN623 with BN723

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