



Product Data Sheet

Bluebell BC623 Audio and Data Fibre Optic Transceiver

Description



Electrical to Optical Transceivers Audio, 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.

Product	SKU
BLUEBELL BC623/M AUDIO AND DATA FIBRE OPTIC TRANSCEIVER	BLU-623M
BLUEBELL BC623/S/13/WB AUDIO AND DATA FIBRE OPTIC TRANSCEIVER	BLU-623S13WB

Key Benefits

- Multi-format converter for use with broadcast analogue audio and control signals
- 2 x bi-directional analogue audio over 2 x fibres
- Bi-directional control data and GPI signal transmission
- Available in multimode, singlemode, WDM and CWDM variants
- Occupies a single slot in BC series 19" rack mounting frames



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Technical Specification

Bluebell BC623 Transceiver Specification	
Electrical Input/Audio	Max I/P power: >-1dBm
Connector: 44 pin D connector 2 x analogue audio ¹ , 20 Hz– 20 kHz ± 0.3 dB	General card specification
Format: 2 x RS232 Bi-directional	Dimensions (HxWxD): 60 x 20 4HP x 129mm 3RU (Excluding connectors)
2 x RS422/485 Bi-directional	Weight: 100g
2 x GPI Bi-directional	Power: 3.5W
Optical Output	No. of slots: 1
Connector: 1 x female LC as standard per channel TX wavelength and power plus receive sensitivity are defined by the SFP fitted	Conformance
Typical values are outlined below:	EMI/RF: Complies with 89/336/EEC, EN55022B, EN61000-4-2, EN61000-4-4-(Level 2), EN61000-4-4FTB, EN61000-4-5, EN61000-4-11
TX Power: -2 dBm @ 1310 nm (typical)	Electrical: Complies with EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4
-2 dBm @ 1510 nm (typical)	Laser safety: Dependent on SFP fitted. Complies with Class 1 laser product
0 dBm @ CWDM (typical)	RoHS: Complies with Directive 2002/95/EC
RX Wavelength: 1200-1610 nm	Warranty: 5 years
RX Sensitivity: > -24 dBm @ 1.25 Gb/s	

¹Note: Audio is designed for talkback system with amplitude restricted to +6 dBu.

Ordering Information

BC623/M: Multimode Dual Fibre 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. Includes PS12 power supply.

BC623/S/13/WB: Singlemode Dual Fibre 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. Includes PS12 power supply.