

BC Series Modular Fibre Optic Interface System



BC630R

4 Channel AES Audio De-Multiplexer

AES/EBU

The BC630R is a receiver for the conversion of an optical signal into 4 channels of AES/EBU digital audio. The incoming optical signal is fed to a trans-impedance and limiting amplifier before being electrically reclocked on the outputs.

All Bluebell cards are designed to retain maximum integrity of the signal path offering excellent jitter free optical transport.

The BC630R card can be used with a BC620T unit allowing line level analogue inputs to feed digital audio AES outputs. Dual AES outputs are provided for each channel to provide local monitoring as well as a main transmission feed.

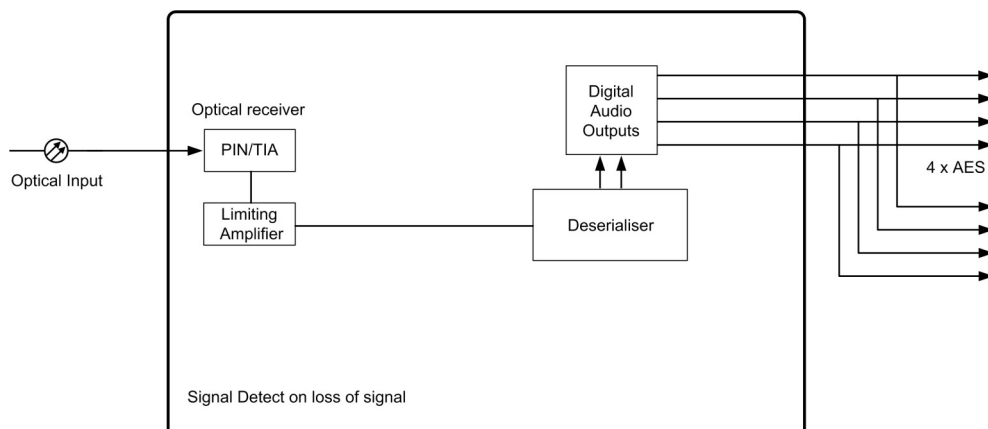
The BC630R is available in multimode, singlemode, WDM and CWDM variants to suit any fibre application.

The BC630R 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 BC630R can be housed in an individual rugged enclosure.

Schematic Diagram BC630R



Rear Panel



Specifications

Optical Input

Connector ¹	1 x female LC
Wavelength	See Ordering Information
	850-1610 nm
	See Ordering Information for multimode and singlemode variants
Sensitivity	> -30 dBm @ 100 Mb/s
Max I/P power	> -1 dBm

Electrical Output Audio

Connector	26-way D connector
Impedance	110 Ohm
Format	AES 48 kHz AES3-1992
Number	4 x AES/EBU Digital Audio

General card specifications

Depth	60 mm
Width	20 mm 4HP
Height	129 mm 3RU
Weight	100 g
Operating Temp	-30 to +70 °C
Power	2.2 W
Signal detect	LED on for loss of signal
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

BC630R/M	Multimode Optical Receiver Card for 4 x AES Audio Signals.
BC630R/S	Singlemode Optical Receiver Card for 4 x AES Audio Signals.

Fitted with LC connectors as standard

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