

## BC Series Modular Fibre Optic Interface System

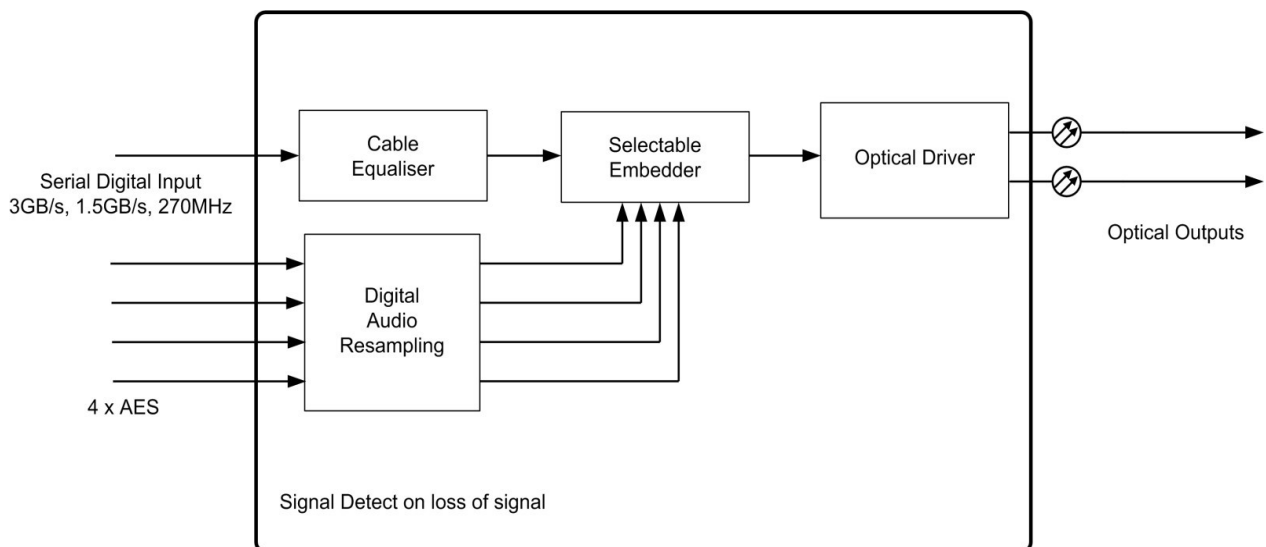


### Description:

- The BC460T is a transmitter that converts 3G/HD/SD-SDI into an optical signal and embeds 4 channels of AES/EBU audio.
- The input is auto-sensed, equalised, and then converted for transmission over a single optical fibre, ensuring jitter-free performance.
- Can be paired with the BC450R de-embedder to convert AES inputs into analogue outputs.
- Available in multimode, singlemode, WDM, and CWDM variants for flexible fibre deployment.
- Fits a single slot in the BC100-3RU frame, which supports up to 15 single-slot cards.
- Some BC Series cards have dual functionality, allowing up to 30 video channels per frame.
- SNMP monitoring is supported via the BM101 card, with optional GP-output alarms through the BM100 module.
- Also offered in a rugged standalone enclosure for individual use.

### BC460T Single Channel Electrical to Optical Embedder

### 3G-SDI, HD-SDI, SD-SDI



## Specifications

Electrical Input Video	
Standards	SMPTE 424M, SMPTE 292M, SMPTE 259M, SMPTE 297M
Equalisation	Automatic to 100 m @ 3 Gb/s Automatic to 200 m @ 1.485 Gb/s Automatic to 300 m @ 270 Mb/s
Connector	75 Ohm BNC per IEC 60169-8 Amendment 2
Return Loss	> 15 dB @ 1.485 Gb/s
Electrical Input Audio	
Connector	26-way D connector
Impedance	110 Ohm
Format	AES 48 kHz AES3-1992
Number	4 x AES/EBU Digital Audio
Optical Output	
Connector	1 x Female LC
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 @ CWD (typical)

General Card Specification	
Depth	60 mm
Width	20 mm 4TE
Height	129 mm (3RU)
Weight	100 g
Operating Temp	-30 to +70 °C
Power	2.2 W
Signal Detect	LED on for signal loss
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

## Ordering Information

BC460T/M/SFP	Multimode 3G-SDI Optical Transmitter Card with 4 x AES Embedder with LC connector
BC460T/S/13/SFP	Singlemode 3G-SDI Optical Transmitter Card with 4 x AES Embedder (1310nm) with LC connector
BC460T/S/15/SFP	Singlemode 3G-SDI Optical Transmitter Card with 4 x AES Embedder (1550nm) with LC connector
BC460T/S/CWDM/SFP	Singlemode 3G-SDI Optical Transmitter Card with 4 x AES Embedder with LC connector (Dedicated CWDM Tuned Laser, Wavelength to suit ITU Grid Spacing). See "CWDM Ordering Matrix" for additional information on ordering.

### 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



Bluebell Opticom Limited,  
Unit 2 The Quadrant,  
Howarth Rd,  
Maidenhead,  
Berkshire,  
SL6 1AP, UK  
Tel: +44 (0) 1628 510055,  
Email: [sales@bluebell.tv](mailto:sales@bluebell.tv)  
Website: [www.bluebell.tv](http://www.bluebell.tv)

