

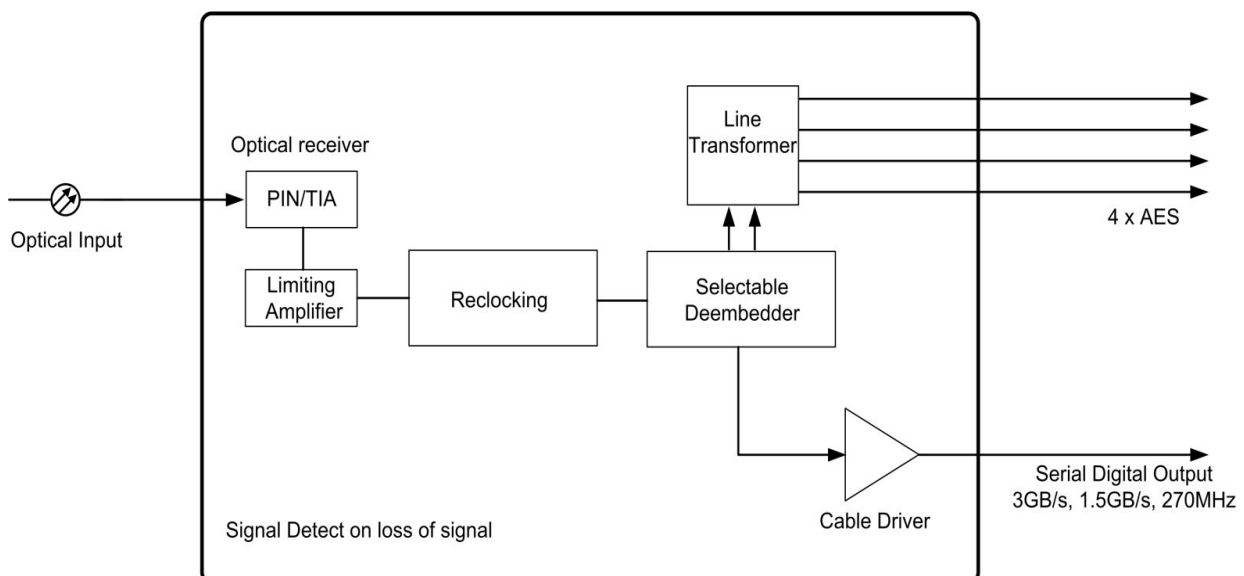
BC Series Modular Fibre Optic Interface System



Description:

- The BC460R is a receiver that converts optical signals into 3G/HD/SD-SDI and de-embeds 4 channels of AES/EBU audio.
- The optical input is amplified and reclocked, while the AES/EBU outputs are driven through line transformers.
- Works with the BC450T embedder to convert analogue inputs into AES outputs.
- Available in multimode, singlemode, WDM, and CWDM variants for a range of fibre applications.
- Occupies a single slot in the BC100-3RU frame, which can hold up to 15 single-slot cards.
- Some BC Series cards offer dual functionality, enabling up to 30 video channels per frame.
- Supports SNMP monitoring via the BM101 card and optional GP-output alarms via the BM100 module.
- Also available in a rugged standalone enclosure for individual use.

BC460R Schematic Diagram:



Specifications

Optical Input	
Connector	1 x female FC See Ordering Information
Wavelength	1260- 1620 nm See Ordering Information for multimode and singlemode variants
Sensitivity	> -25.0 dBm @ 3 Gb/s > -25.5 dBm @ 1.485 Mb/s > -26.0 dBm @ 270 Mb/s Max I/P
Max I/P Power	> -1 dBm
Data Rate	270 Mb/s, 1.485 Gb/s, 3 Gb/s
Electrical Output Video	
Connector	75 Ohm BNC per IEC 60169-8 Amendment 2
Return Loss	> 15 dB @ 1.485 Gb/s
Polarity	Non Inverting
Signal Level	800 mV +/- 10%
DC Offset	0 +/- 0.5 V
Jitter	<0.2 UI line equalized
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 4TE
Height	100 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

BC460R	3G-SDI Optical Receiver Card with 4 x AES De-embedding with LC connector
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