

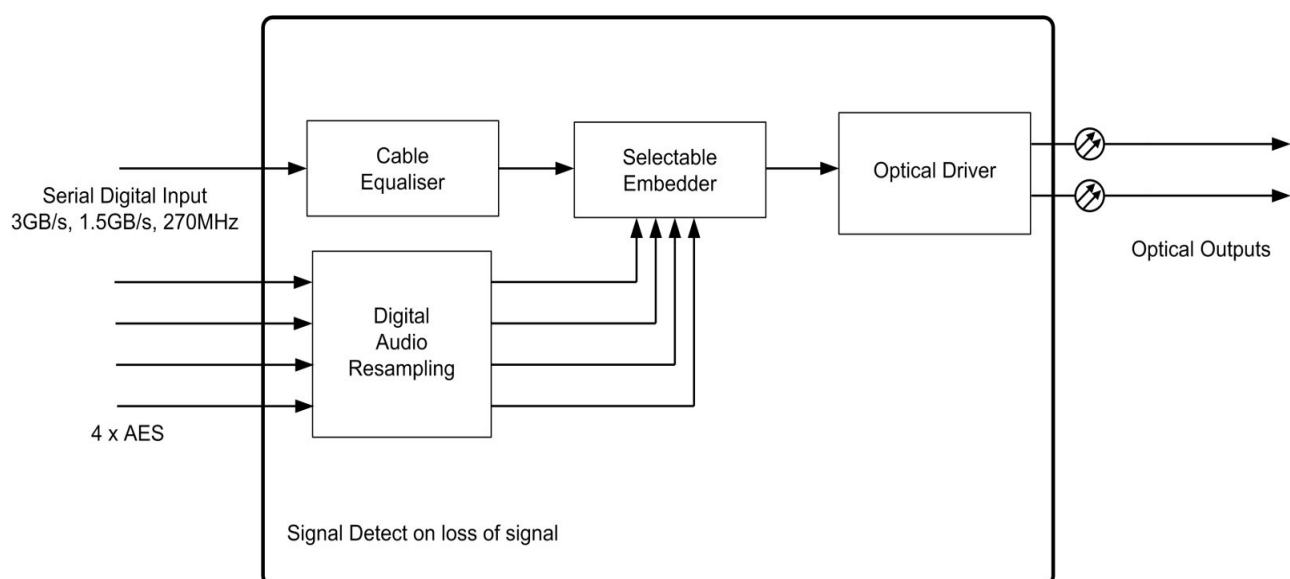
## BC Series Modular Fibre Optic Interface System



### 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 Schematic Diagram:



## Specifications

| Electrical Input Video |                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------|
| Standards              | SMPTE 424M, SMPTE 292M, SMPTE 259M, SMPTE 297M                                                  |
| Equalisation           | Automatic to 100 m @ 3 Gb/s<br>Automatic to 200 m @ 1.485 Gb/s<br>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<br>See Ordering Information                                      |
| Optical Power          | -2 dBm @ 1310 nm(typical)<br>-2 dBm @ 1510 nm(typical)<br>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 | 3G-SDI Optical Transmitter Card with 4 x AES Embedder with LC connector |
|--------|-------------------------------------------------------------------------|



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