

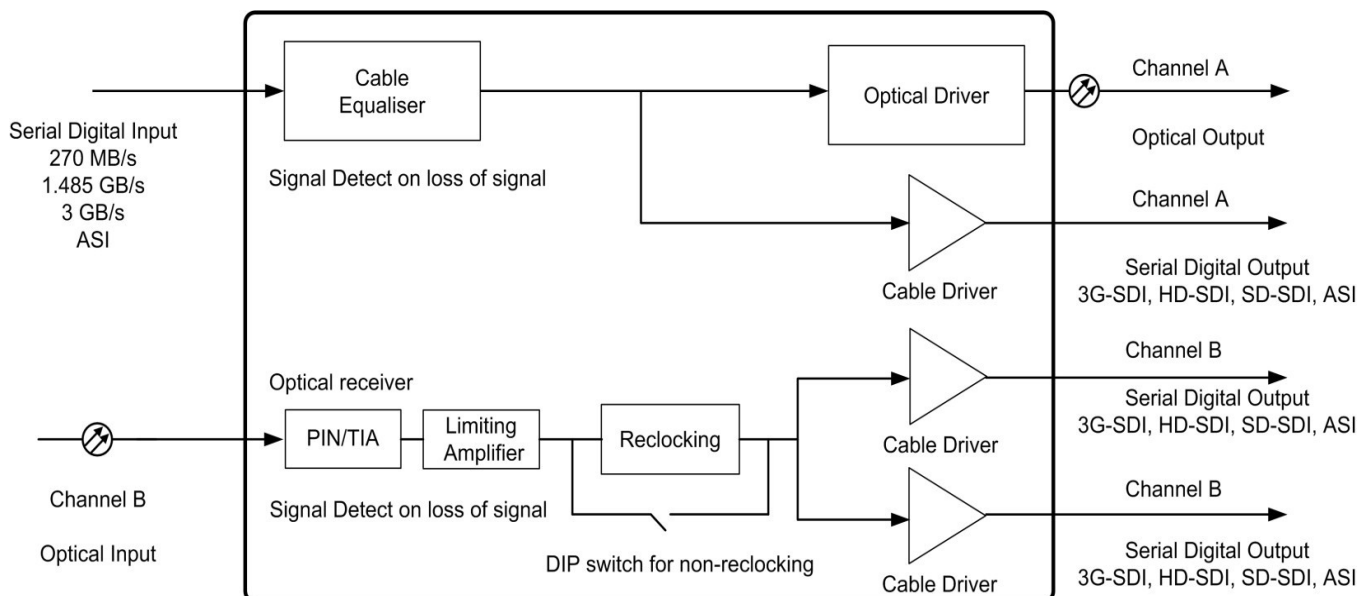
## BC Series Modular Fibre Optic Interface System



### Description:

- 3G-SDI, HD-SDI, SD-SDI, and ASI transceiver.
- Supports two independent transport streams in opposite directions on two fibres.
- Channel A: Auto-sensing 3G-SDI optical transmitter; handles all Serial Digital Video formats from 50 Mb/s to 3.0 Gb/s.
- Cable equalised, reclocked, and sent to an optical driver (singlemode, multimode, or CWDM).
- Includes an active loop-through output.
- Channel B: 3G-SDI optical receiver; optical signal is amplified, auto-sensed, reclocked, and output via two BNC connectors.
- Provides jitter-free optical transport with maximum signal integrity.
- Available in singlemode, WDM, and CWDM variants.
- Fits a single slot in the BC100-3RU rack (up to 15 channels per frame).
- Monitoring via SNMP (BM101 card) or GP-output alarms (BM100 module).
- Can be supplied in a rugged standalone enclosure for portable use.

### BC360R Schematic diagram:



## Specifications

| Electrical Input |                                                                                                                                                                                  |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards        | SMPTE 424M , SMPTE 292M, SMPTE 259M, SMPTE 297M, DVB-ASI                                                                                                                         |
| 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<br>Equaliser and reclocking can be bypassed to support data rates down to 50 Mb/s |
| Connector        | 75 Ohm BNC per IEC 60169-8 Amendment 2                                                                                                                                           |
| Return loss      | > 15 dB@ 1.485 Gb/s                                                                                                                                                              |
| Optical Output   |                                                                                                                                                                                  |
| Connector        | 1 x female LC as standard per channel                                                                                                                                            |
| Wavelength       | 1310-1550 nm (See Ordering Info)                                                                                                                                                 |
| Optical power    | -2 dBm@ 1310 nm (typical)<br>-2 dBm @ 1510 nm (typical)<br>0 dBm @ CWDM (typical)                                                                                                |
| Optical Input    |                                                                                                                                                                                  |
| Connector        | 1 x female LC as standard per channel                                                                                                                                            |
| Wavelength       | 1260 – 1620nm<br>See Ordering Info for multimode and singlemode variants                                                                                                         |
| Sensitivity      | > -25.0 dBm @ 3 Gb/s<br>> -25.5 dBm @ 1.485 Mb/s<br>> -26.0 dBm @ 270 Mb/s                                                                                                       |
| Max I/P power    | > -1 dBm                                                                                                                                                                         |
| Data rate        | 50 Mb/s to 3 Gb/s                                                                                                                                                                |

| General module specifications |                                                              |
|-------------------------------|--------------------------------------------------------------|
| Depth                         | 60 mm                                                        |
| Width                         | 20 mm 4TE                                                    |
| Height                        | 129 mm (3RU)                                                 |
| Weight                        | 100 g                                                        |
| Operating Temp                | -30 to +70 °C                                                |
| Power                         | 3W                                                           |
| 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                                                      |
| Electrical Output             |                                                              |
| Connector                     | 75 Ohm BNC per IEC 60169-8 Amendment 2 per channel           |
| Return loss                   | > 15 dB@ 1.485 Gb/s                                          |
| Format                        | Driven active loop out                                       |
| Polarity                      | Non inverting.                                               |
| Signal Level                  | 800 mV +/- 10%                                               |
| DC Offset                     | 0 +/- 0.5 V                                                  |
| Jitter                        | <0.15 UI line equalized                                      |

## Ordering Information

|        |                                                                                 |
|--------|---------------------------------------------------------------------------------|
| BC360R | 3G/SDI Fibre Optic receiver Card, Auto-Sensing for 3G-SDI, HD/SDI, SD/SDI, ASI. |
|--------|---------------------------------------------------------------------------------|



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