

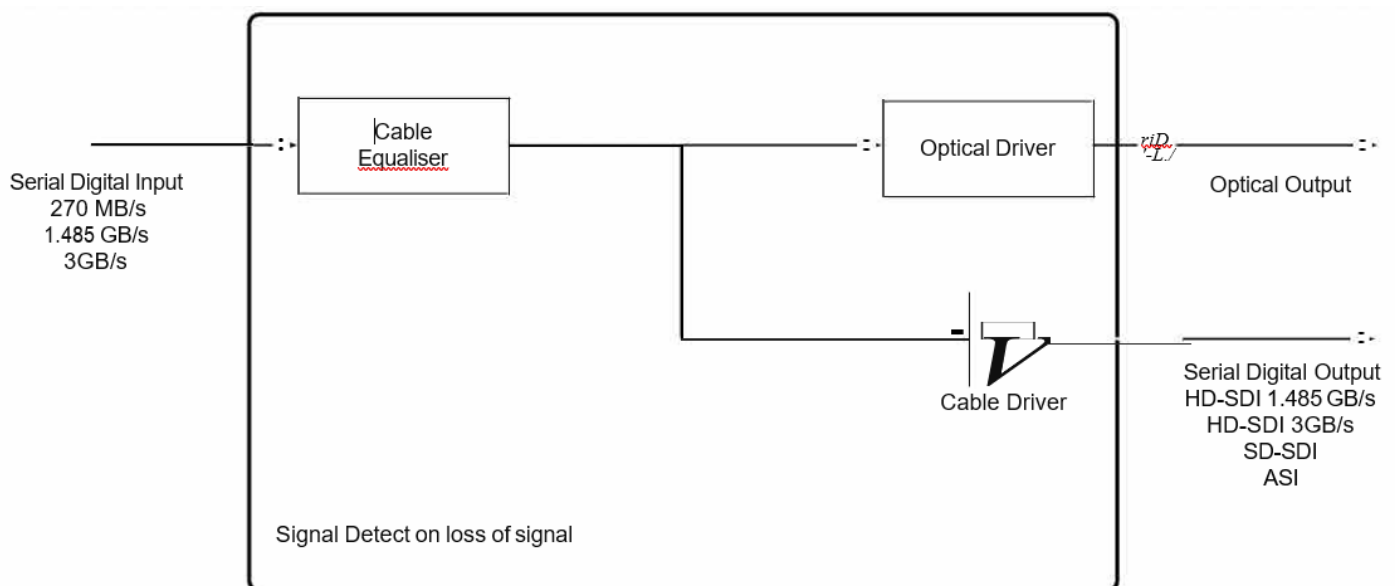
BC Series Modular Fibre Optic Interface System



Description:

- Transmitter for converting 3G-SDI, HD-SDI, SD-SDI, and ASI signals to fibre optic.
- Auto-senses and equalises incoming signals before conversion and transmission over a single fibre.
- Maintains maximum signal integrity with jitter-free optical transport.
- Operates in non-reclocking mode with data rates from 50 Mb/s to 3 Gb/s.
- Ideal for applications requiring main and reserve channels on separate cards for redundancy.
- Available in singlemode, WDM, and CWDM variants.
- Occupies a single slot in the BC100-3RU frame (up to 15 cards per frame).
- Certain BC Series cards allow dual functionality for up to 30 video channels per 3RU frame.
- Supports SNMP monitoring via BM101 card or GP-Output alarms via BM100 module.
- Can be housed in a rugged standalone enclosure for portable use.

BC360T Schematic diagram:



Specifications

Electrical Input

Standards	SMPTE 424M , SMPTE 292M, SMPTE 259M, SMPTE 297M, DVB-ASI
Equalisation	Automatic to 100 m @3 Gb/s Automatic to 200 m @ 1.485 Gb/s Automatic to 300 m @ 270 Mb/s 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) -2 dBm @ 1510 nm (typical) 0 dBm @ CWDM (typical)

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

BC360	3G/SDI Fibre Optic Transceiver Card, Auto-Sensing for 3G-SDI, HD/SDI, SD/SDI, ASI.
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Bluebell Opticom Limited,
Unit 2 The Quadrant,
Howarth Rd,
Maidenhead,
Berkshire,
SL6 1AP, UK
Tel: +44 (0) 1628 510055,
Email: sales@bluebell.tv
Website: www.bluebell.tv

