

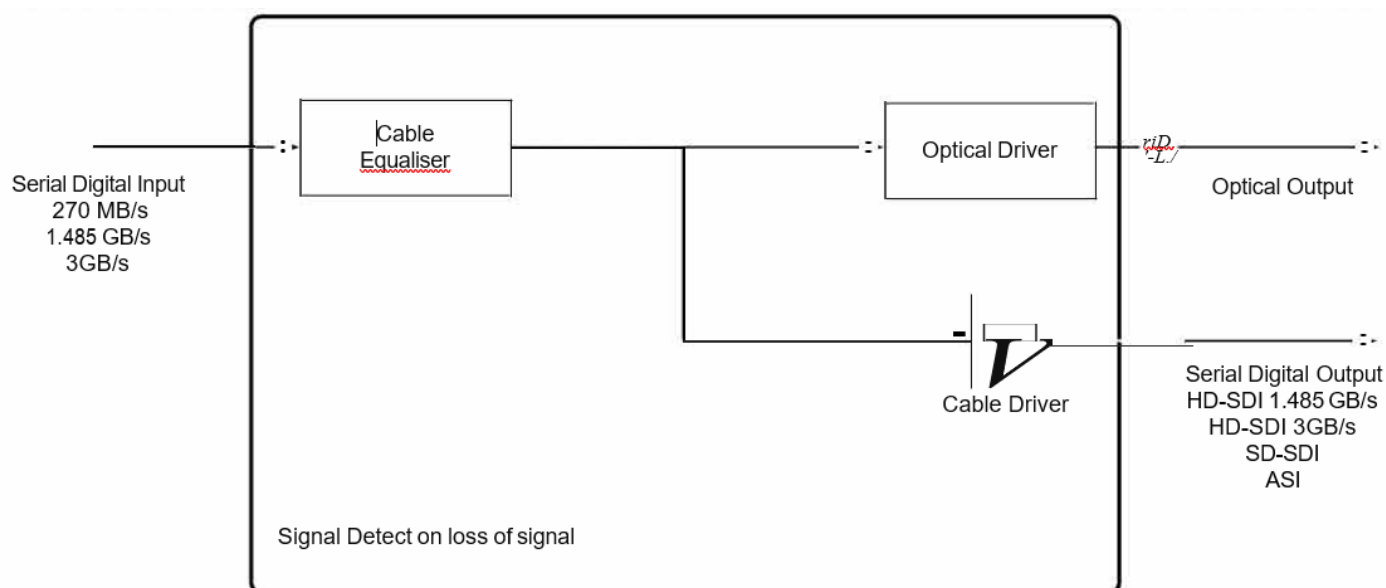
BC Series Modular Fibre Optic Interface System



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/M	Multimode 3G/SDI Fibre Optic Transceiver Card, Auto-Sensing for 3G-SDI, HD/SDI, SD/SDI, ASI. BC360/S/13/WB
BC360/S/15/WB	Singlemode 3G/SDI Fibre Optic Transceiver Card, Auto-Sensing for 3G-SDI, HD/SDI, SD/SDI, ASI (1310nm).
BC360/S/CWDM/WB	Singlemode 3G/SDI Fibre Optic Transceiver Card, Auto-Sensing for 3G-SDI, HD/SDI, SD/SDI, ASI (1550nm).
	Singlemode 3G/SDI Fibre Optic Transceiver Card, Auto-Sensing for HD/SDI, SD/SDI, ASI (CWDM Tuned Lasers)
	Each card has a transmitter at the specified wavelength and a separate wideband receiver. 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
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,
Berks,
SL6 1AP, UK
Tel: +44 (0) 1628 510055,
Email: sales@bluebell.tv
Website: www.bluebell.tv

