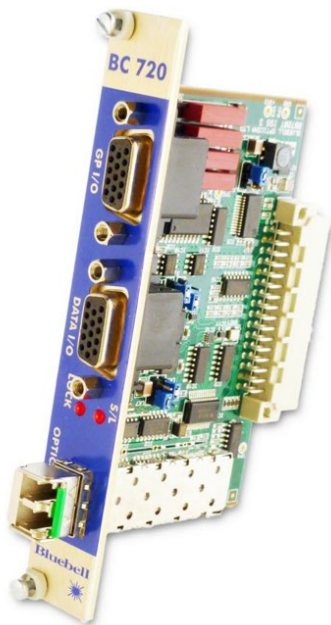


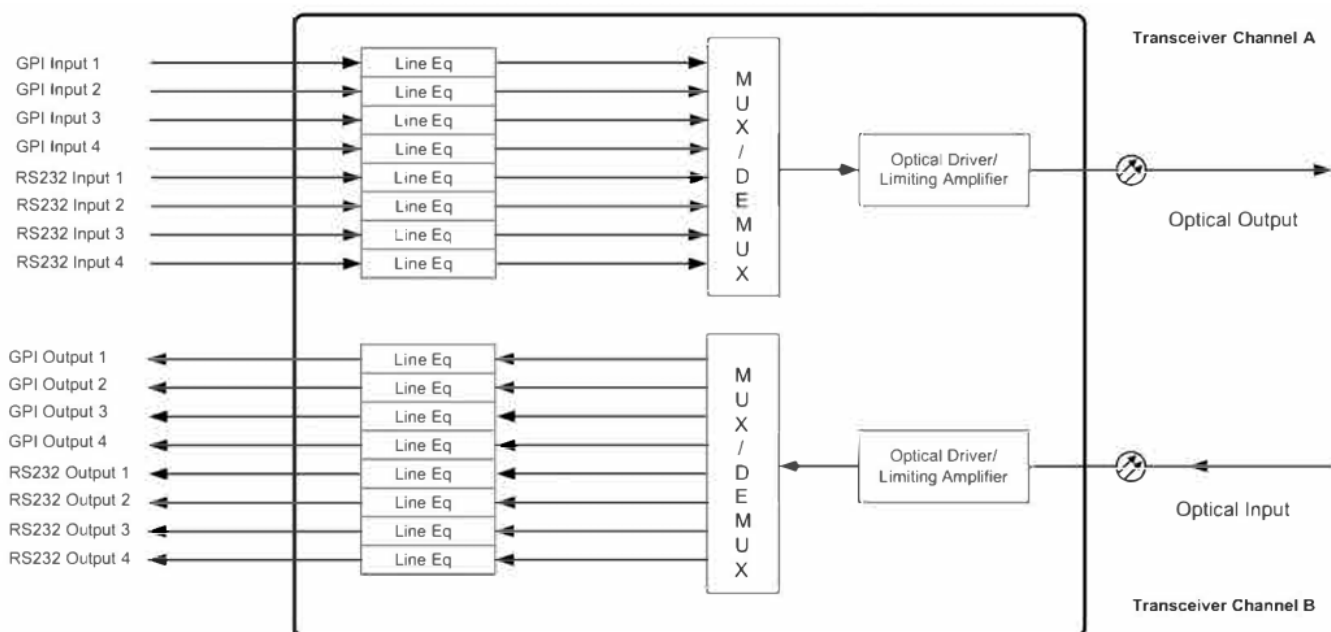
## BC Series Modular Fibre Optic Interface System



### Description:

- Transmits and receives 4 independent GPIO signals plus 4 RS232 or RS422/485 signals over fibre
- Uses two independent wavelengths for reliable transport
- GPIO inputs are TTL level; GPIO outputs via isolated relay contact closure
- Supports mixed mode operation (RS232 ↔ RS422/485) without external converters
- Available in multimode and singlemode variants
- Fits into the BC100-3RU rack (up to 15 cards, or 30 channels with dual-function cards)
- SNMP monitoring available with BM101; GP-output alarms via BM100 module
- Can also be housed in a rugged stand-alone enclosure

### BC720 Schematic diagram:



## Specifications

Electrical Input/Audio	
Connector	15 way D sub-connector
Number	4 x TTL level GPIO inputs Operational mode 1) RS232 4 x RS232 2) RS422/485 2 x RS485 Full Duplex 1 x RS422 Full Duplex 1 x RS485 Half Duplex 3) RS422/485 1 x RS485 Half Duplex 1 x RS422/485 Full Duplex
Electrical Output	
Connector	15 way D Sub-Connector
Number	4 x GPIO outputs via isolated relay contact closure Operational Mode 1) RS232 4 x RS232 2) RS422/485 2 x RS485 Full Duplex 1 x RS422 Full Duplex 3) RS422/485 1 x RS485 Half Duplex 1 x RS422/485 Full Duplex
Optical Input/Output	
Connector	2 x female LC/PC See Ordering Information
Wavelength	See Schematic
Optical Power	-15 dBm@ 1310 nm multimode -6 dBm@ 1310 nm singlemode
Sensitivity	> - 26 dBm
Max I/P Power	> -1 dBm

General Card Specifications	
Depth	60 mm
Width	20 mm 4TE
Height	129 mm (3RU)
Weight	100g
Operating Temp	-30 to +70 °C
Power	2.5 W
Signal Detect	LED on for signal Loss
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
<b>See Ordering Information Key/xx</b> <b>Use /RC for GPI relay closed = GPO closed</b> <b>Use /RP for GPI relay closed = GPO open</b>  <b>2 The card can also operate in a mixed mode where RS232 signals on end connect to remote equipment operating in RS485 (or RS422) mode.</b>	

## Ordering Information

BC720M/xx	Multimode dual fibre GPI and Data Transceiver Card with LC connectors
BC720S/xx	Singlemode dual fibre GPI and Data Transceiver Card with LC connectors
BC720S/xx/CWDM	Singlemode Dual Fibre Multichannel GPI and Multiformat Data Transceiver Card. Fitted with LC connectors as standard. Wavelengths to suit CWDM ITU Grid. Contact the Sales Office for alternate options.

**For all available enclosures and frames see section "Universal Chassis and Power Supplies"**



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

