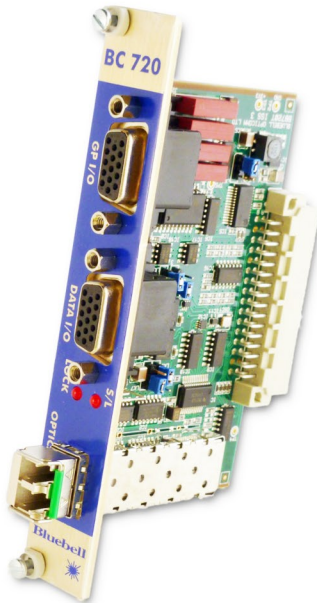


BC SERIES MODULAR FIBRE OPTIC INTERFACE SYSTEM



BC720 GPI and Data Transceiver Card

GPI, RS232, RS422/485

The BC720 is a transceiver card providing for the transmission and reception of 4 x independent GPIO signals plus 4 x RS232 or RS422/485 level signals via fibre optical cable using two independent wavelengths. The 4 x GPIO input signals are TTL level inputs with the 4 x GPIO outputs provided via isolated relay contact closure.

The BC720 will also operate in a mixed mode allowing RS232 to RS422/485 links to be made eliminating the need for external mode converters.

All Bluebell cards are designed to retain maximum integrity of the signal path offering excellent jitter free optical transport.

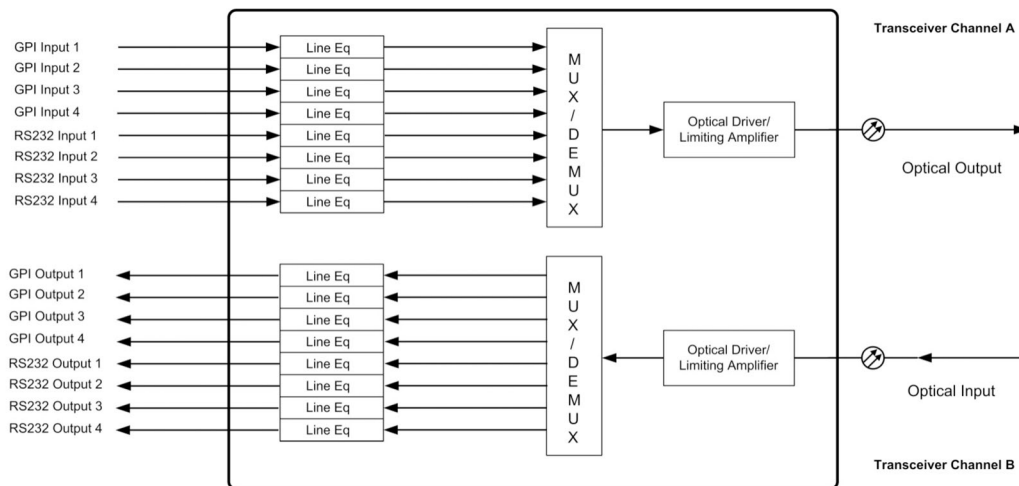
The BC720 is available in multimode and singlemode variants to suit any fibre application.

The BC720 occupies a single slot in the BC100-3RU 19" rack-mounting frame which can hold up to 15 single slot cards. This dual functionality allows up to 30 channels of video to be transmitted or received from a single 3RU frame.

Signal and card monitoring is achieved through SNMP monitoring in the BM101 network card. Alternatively GP-Output alarms can be triggered via the BM100 module.

For stand alone applications the BC720 can be housed in an individual rugged enclosure.

Schematic Diagram for BC720



Specifications

Electrical Input

Connector	15 way D sub-connector			
Number	4 x TTL level GPIO inputs			
Operational Mode				
1)	RS232 ²	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	

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 ¹	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	100 g
Operating Temp	-30 to +70 °C
Power	2.5 W
Signal detect	LED on for loss of signal

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

¹ See Ordering Information

Key
/xx
Use /RC for GPI relay closed = GPO closed
Use /RP for GPI relay closed = GPO open

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.

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 Multifunction 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"

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