# Bluebell

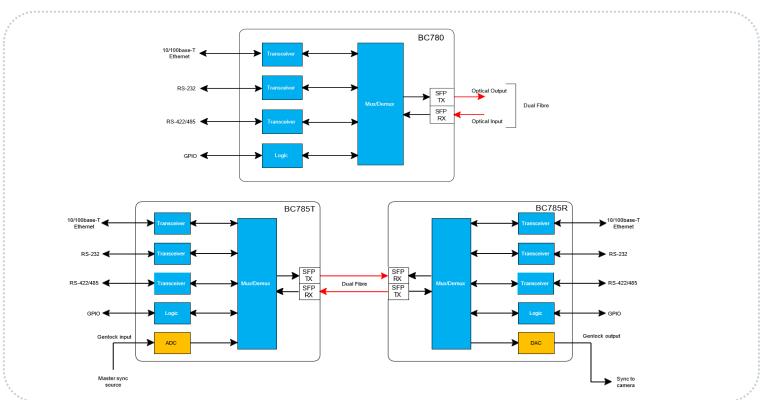
BC Series Modular Fibre Optic Interface System



### **Description:**

- BC780: Optical-electrical transceiver for bidirectional transport of control signals over dual fibre
- Typical use: remote camera control at sports, festivals, large venues
- BC785T: Adds genlock transmitter subcard (controller end)
- BC785R: Adds genlock receiver subcard (camera end) for remote genlock lock
- Provide RJ45 Ethernet port (10/100base-T) for IP control data
- Include RS-232 I/O and switchable RS-422/RS-485 I/O for serial commands
- GPI input and output for additional control options
- Fibre link is bidirectional, supporting command acknowledgement and camera-generated data return
- Optical I/O via dual LC connector in SFP carrier; transmitter supports CWDM wavelengths (1270–1610 nm), receiver is wideband
- Status LED indicates valid fibre data reception
- Fully compatible with BC Series racks and enclosures
- Report status via built-in rack monitoring; enhanced SNP monitoring available with network cards (BM102, BM102i, BM103)

## BC780 Schematic diagram:



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#### **Specifications**

BC780, BC785T, BC785R			
Electrical Inputs and Outputs			
Liectrical inputs and Outputs			
RS-232	Rx & Tx (unbalanced), max. 250 kbaud		
RS-422/RS-485 GPIO	Rx & Tx (balanced), full duplex, max. 10 Mbaud	15-pin Dsub connector (shared)	
Ethernet	·1 x input, 1 x output	(	
Genlock input (BC785T only)	10/100base-T		
Genlock output (BC785R only)		RJ45	
Optical Inputs and Outputs	Analogue composite video, black & burst, tri-level sync	BNC (75 ohms)	
Most specs determined by SFP fitted. Typical values given below.			
Connector	2 x female LC		
Wavelength	1270 – 1610 nm		
Optical power output	-15 dBm @1310 nm multimode		
	-6 dBm @ 1310 nm singlemode		
Conformities			
EMI/RFI	Complies with 89/336/EEC, EN55032B, EN61000-4-2		
Electrical	Complies with EN61000-4-4FTB, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4		
Laser Safety	*Complies with Class 1 laser product		
RoHS & WEEE	Complies with Directive 2002/95/EC		

Monitoring		
Front panel	S/L: bi-colour LED indicating a valid and locked signal at optical receiver	
External via BC100/BC160 frame	Bi-colour LED indicating lock status of optical input	
External via BC100i/BC160i frame	On-screen lock status indication of optical input	
External via BC100/BC100i/ BC160/BC160i frame with network card fitted	Bi-colour virtual LED per channel indicating lock status of optical input	
SNMP monitoring (via BC100/ BC100i/BC160/BC160i frame with network card fitted)	Lock status of each optical input	
General		
Input Voltage	4 – 17 V	
Power consumption	5 W	
Depth	75 mm (60 mm excluding connectors)	
Width	20 mm (4HP)	
Height	129 mm (3RU)	
Weight	100 g	
Operating Temperature	-30 to +70 °C	

# **Bluebell**\*

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