

# Bluebell

## BC Series Modular Fibre Optic Interface System



### BC363 Multi-format Interface

The BC363 is a compact rack-based multi-format converter for use with a wide range of broadcast video and audio signals.

The BC363 provides a base unit that comprises an input and output SFP cage. By using different SFP converter modules the functionality of the unit can be adapted to suit different applications.

The signal input and output formats are defined by the selection of appropriate standard SFPs. This can be both in the form of an optical and/or electrical format conversion. A wide range of functionality can be achieved and allows the BC363 to act as a "toolkit" for Systems Engineers as well as a high quality stand alone converter for a fixed installation.

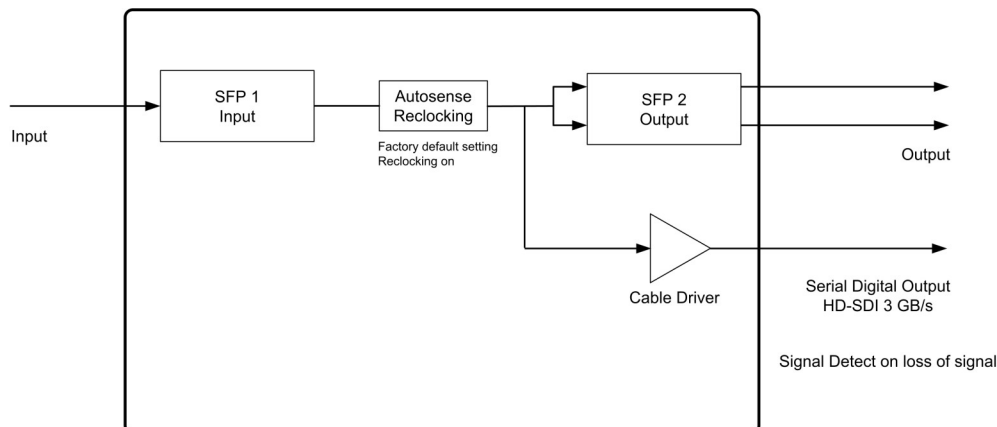
Multi format SFPs include conversion to and from composite, HDMI, DVI, optical and HD-SDI. Units can also be used for regenerating optical signals from multimode to singlemode or re-mapping wavelengths within existing fibre systems.

See separate SFP documentation for the options available.

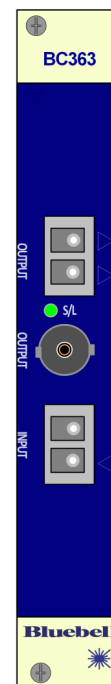
The BC363 occupies a single slot in the BC100 3RU 19" rack-mounting frame which can hold up to 15 single slot cards. The compact BC160 1RU is available for up to six cards. Signal and card monitoring is achieved through SNMP monitoring in the BM102 network card.

For stand-alone applications the BC363 can be housed in an individual rugged enclosure.

## Schematic Diagram BC363



## Rear Panel



## Specifications

## General card specifications

Depth	86 mm	(including connectors)
Width	20 mm	(4HP)
Height	129 mm	(3RU)
Weight	100 g	
Operating Temp	-30 to +70 °C	
Power	3.7 W	
Signal detect	LED red for signal loss	

## Conformance

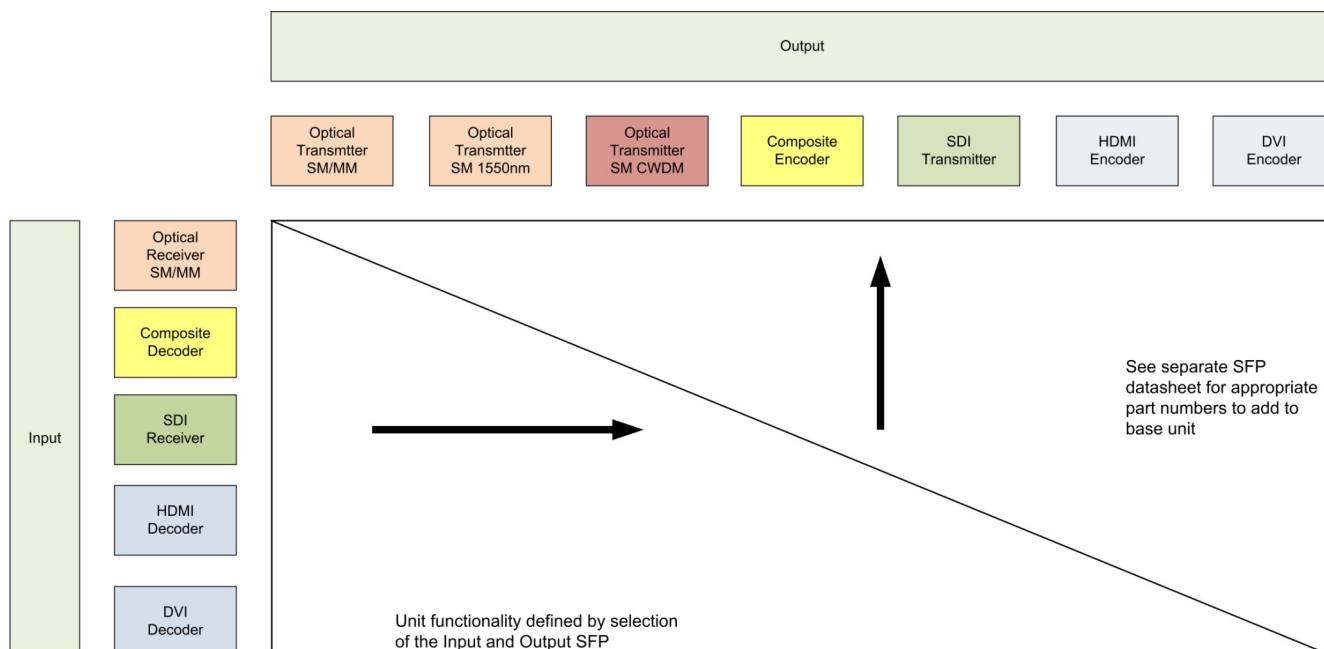
EMI/RFI	Complies with 89/336/EEC
Electrical	Complies with EN 61000-6-1, EN61000-6-2
Laser Safety	Complies with Class 1 laser product 24 CFR 1040.10 & 1040.11
RoHS	Complies with Directive 2002/95/EC
Warranty	5 years on BC363 base unit

## Electrical Output

Standards	SMPTE 424M, SMPTE 292M, SMPTE 259M,
Connector	1 x 75 Ohm BNC per IEC 60169-8 Amendment 2
Return Loss	> 15 dB @ 1.485 Gb/s
Signal Level	800 mV +/- 10%
DC Offset	0 +/- 0.5 V
Jitter	<0.15 UI line equalised
Format	Reclocked
	(With bypass selectable via jumper link. )

Unit functionality is defined by the SFP modules fitted.

See chart below for currently available combinations.



## Ordering Information See separate SFP sheet for full SFP part numbers and details

BC363

Multi-format Single Channel Interface.

Base unit only - No SFP fitted. Requires an input and output MSA/non-MSA SFP from recommended list. Factory default reclocking on, please specify at time of order if non reclocking required.

NB : If a dual channel SFP is used in the input position only one channel is active.