

BC Series Modular Fibre Optic Interface System



BC364 Multi-format Interface

The BC364 is a compact rack based multi-format converter for use with a wide range of broadcast video and audio signals.

The BC364 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 format is defined by the selection of an appropriate standard SFP. This can be both in the form of an optical and/or electrical format conversion. The BC364 card offers a range of options including distribution, format conversion, monitoring and Wavelength Management including CWDM. Such a wide range of functionality allows the BC364 to act as a "toolkit" for Systems Engineers as well as a high quality converter for any fixed installation.

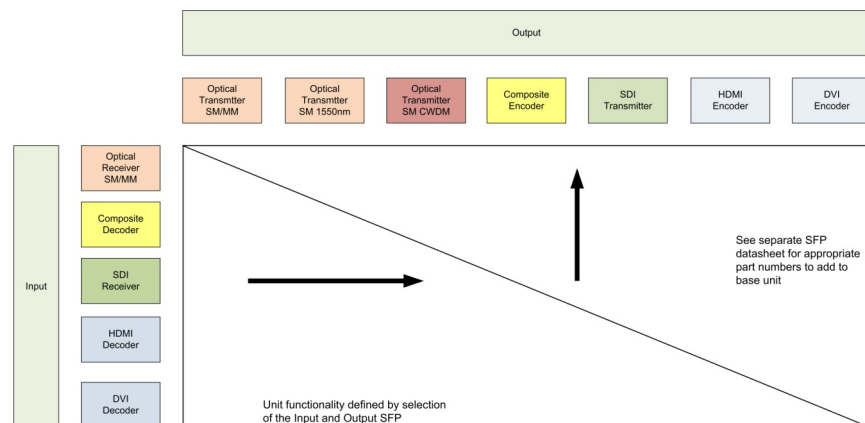
Multi format SFPs include conversion to and from Composite, HDMI, DVI, optical and SDI. Units can also be used for regenerating optical signals from multimode to singlemode or re-mapping wavelengths within existing fibre systems.

See separate SFP documentation for the options available.

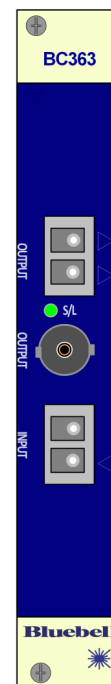
The BC364 occupies a single slot in the BC100-3RU 19" rack-mounting frame which can hold up to 15 single slot cards. The compact BC160 1RU is available for up to six cards. Signal and card monitoring is achieved through SNMP monitoring in the BM102 network card.

For stand alone applications the BC364 can be housed in an individual rugged enclosure.

Schematic Diagram BC364



Rear Panel



Specifications

General card specifications

Depth	60 mm
Width	20 mm 4TE
Height	129 mm (3RU)
Weight	100 g
Operating Temp	-30 to +70 °C
Power	2.4 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 on BC363 base unit

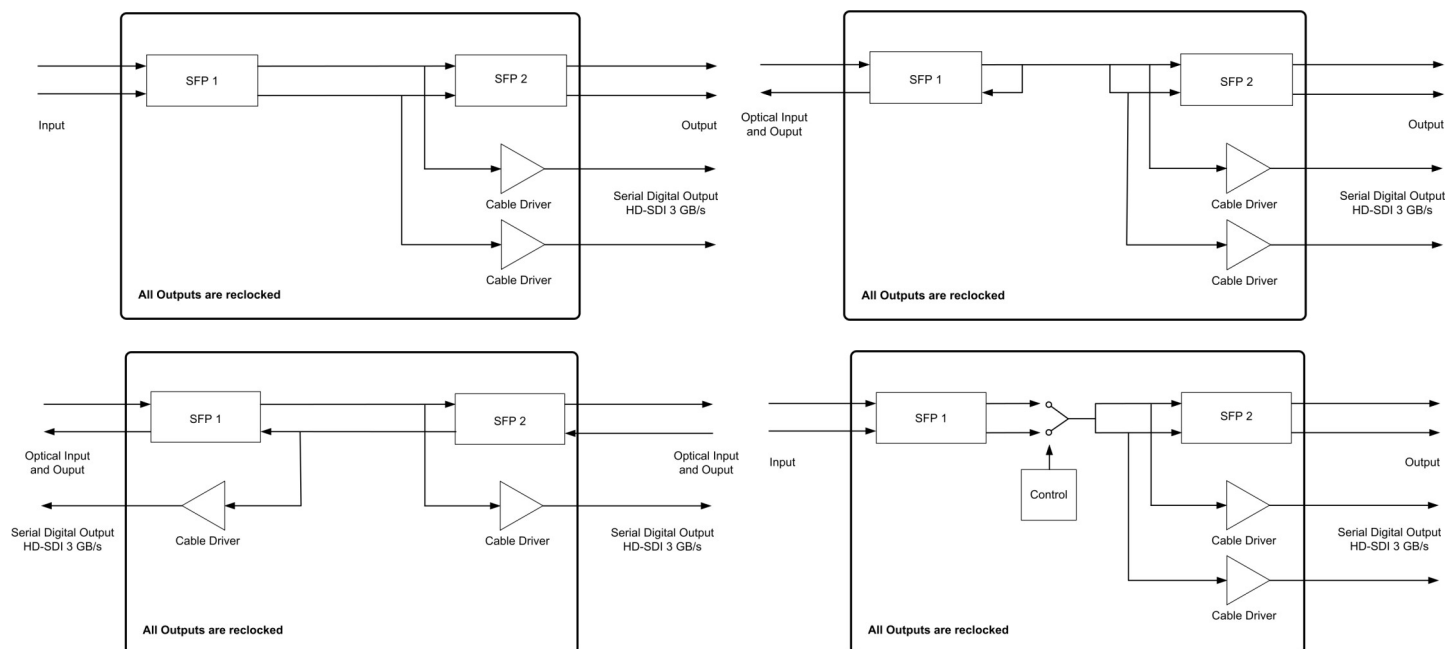
Electrical Output

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

Unit functionality is defined by the SFP modules fitted.

See chart above for currently available combinations.

There are four basic configurations available on the standard board;



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

BC364

Multi-format Dual 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.