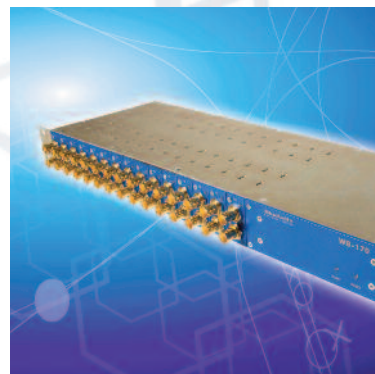
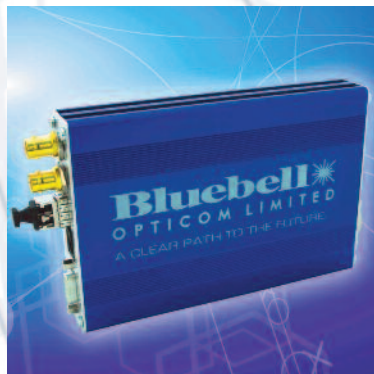


# Infrastructure Applications



# Products

PART NUMBER	DESCRIPTION	3G	HD	SD	Video	AES	AA	Data	UTP	Tally/ GPI	Rack	Stand Alone
<b>Universal Chassis and Power Supplies</b>												
BC-100	19" 3RU Chassis for up to 15 BC Series Cards										x	
BC-160	19" 1RU Chassis for up to 6 BC Series Cards.										x	
BC-160P	19" 1RU Chassis for up to 6 Passive BC Series Cards.										x	
BC110	Single Slot Chassis with Universal Mains Power Supply											x
BC120	Triple Slot Chassis with Universal Mains Power Supply											x
<b>High Density 3G 1RU Transport System</b>												
WB170-1RU	19" 1RU Chassis for up to 28 3G-SDI links										x	
WB172T/S/13/13	Dual Channel 3G/HD/SD-SDI High Density Fibre Optic Links	< 2 >									x	
<b>Modular BC Series Cards</b>												
<b>Time Division Multiplexing HD-SDI, Video, Audio and Data Multiplexing</b>												
TDM-300T	TDM-300R		1 >	3 >							x	x
TDM-300TA	TDM-300RA		1 >	3 >			8 >	1 >			x	x
TDM-710CE			1 >		< 1			< 2 >		< 1 >		x
TDM-700CE			1 >		< 1			< 2 >	< 1 >	< 1 >		x
TDM-710C	TDM-710B		1 >		< 1			< 2 >		< 1 >	x	x
TDM-700C	TDM-700B		1 >		< 1			< 2 >	< 1 >	< 1 >	x	x
<b>3G/HD/SD-SDI Transmitters and Receivers</b>												
BC360T	BC360R	> 1									x	x
BC362T	BC362R	> 2									x	x
BC360	BC360IB	< 1 >									x	x
BC360IBT	BC360IBR	> 1									x	x
BC362IBT	BC362IBR	> 2									x	x
High power versions available - Contact the Sales Office for details												
<b>3G/HD/SD-SDI Transmitters and Receivers with Audio Embedding</b>												
BC450T	BC450R	> 1									x	x
BC460T	BC460R	> 1				> 4	> 8				x	x
<b>SDI/ASI, HD/SDI Transmitters and Receivers</b>												
BC300T	BC300R			> 2							x	x
<b>Distribution Amplifiers and Converters</b>												
BC350											x	x
BC12-ADC											x	x
BC12-DAC											x	x
<b>BC500 Composite Video, Audio and data</b>												
BC500T	BC500R				> 1		> 2				x	x
BC500T/S/A/232	BC500R/S/A/232				> 1		> 1	> 1			x	x
BC500T/S/232/422	BC500R/S/232/422				> 1			> 2			x	x
<b>BC551 HD-SDI, Audio or data</b>												
BC551AT/S	BC551AR/S	> 1					< 1				x	x
BC551DT/S	BC551DR/S	> 1						< 1			x	x
<b>Audio &amp; Data Converters</b>												
BC030T/S	BC030R/S						> 2				x	x
BC030T/S/D	BC030R/S/D							> 2			x	x
BC040T/S/D	BC040R/S/D							> 2			x	x
BC050T/S/D	BC050R/S/D							> 2			x	x
<b>Audio Converters</b>												
BC620T	BC620R						> 8				x	x
BC630T	BC630R					> 4					x	x
<b>Data</b>												
BC720										< 4 >	< 4 >	x
BC730T	BC730R										x	x
BC800										< 1 >		x
BC850										< 1 >		x
<b>Audio Transceivers</b>												
BC700							< 2 >				x	x
BC710							< 2 >				x	x
<b>RF/L Band Converters</b>												
BC920T	BC920R										x	x
<b>Wave Division Multiplexing Products</b>												
BC2	BC2/M										x	x
<b>Coarse Wave Division Multiplexing Products</b>												
BC-4											x	x
BC-8											x	x
<b>Splitters and Switches</b>												
BC2x1SWV											x	x
BCSPILT											x	x
BCSPILT1xn											x	x
<b>Analogue Audio &amp; AES Digital Audio Multiplexing Transmitters and Receivers in 1RU frame</b>												
BB600T	BB600R						> 12				x	
BB610T	BB610R					> 6					x	
BB610T	BB610R					> 6					x	
<b>Field Depoloyable Products</b>												
BBOX QUAD3G		> 4										x
BC313T	BC313R	> 1										x
BC323T	BC323R	> 2										x
BC323TR		< 1 >										x
BC550AT/S	BC550AR/S	> 1					< 1					x
BC550DT/S	BC550DR/S	> 1						< 1				x
SHAX	SHAXx (with power insertion)											x
<b>SOCX</b>												
												x
<b>Field Depoloyable Enclosures</b>												
Optical 2U Flightcase	Optical 3U Flightcase											x
PROBE-BASE3	PROBE-BASE6											x
<b>Cables and Drums</b>												
We also supply a wide range of fibre cables available in a variety of fibre counts, connector types and lengths.												x

# Infrastructure Products

Bluebell manufactures a wide range of optical interfaces for the Broadcast Studio and Transmission markets. Our products are used for the critical delivery of video, audio and data services by leading Broadcasters and service providers around the world. Applications range from simple Studio links to a complete optical infrastructure system. Some key products are highlighted below;

## Modular broadcast fibre optic solutions

The BC Series is a cost effective and flexible modular system designed to accommodate the growing number of broadcast signals that need to be transported over fibre optic cable. With nearly 100 cards in the range, all standard video, audio and data formats can be accommodated with alarm and monitoring via GPI or Ethernet/SNMP. Multiple signals can be electrically multiplexed together as a single wavelength and up to 16 wavelengths can then be multiplexed onto a single fibre using CWDM. Optical splitters and switches provide redundancy for mission critical situations.

Our equipment supports

- 3G-SDI, HD-SDI, SD-SDI, DVB-ASI
- Broadcast Quality PAL/NTSC
- AES/EBU and analogue audio
- 10/100/1000 BaseT Ethernet
- Data and RF

## TDM-700

Part of a growing range of Time Division Multiplexing cards, the TDM-700 provides a very effective optical link when HD-SDI, genlock and serial control data is needed in one compact package. The TDM-700 can be used to cost effectively link remote video servers and slow motion controllers. An Ethernet link also provides control and configuration of remote IP based devices. The TDM-700 also finds application integrating POV cameras into the main broadcast facility.



## BC362

An extremely cost effective dual channel 3G-SDI fibre link that provides reclocking, loop thru inputs and dual outputs. This card often provides the backbone of a Broadcaster's optical infrastructure.

## BC450/460

These cards provide embedding and de-embedding into the 3G-SDI stream of AES and analogue audio signals. BC450 analogue embedders can be combined with BC460 AES de-embedders and vice versa.

## BC620/630

These cards provide audio only transport for 8 channels of analogue audio or 4 channels of AES-EBU. They can also be used to provide links with analogue inputs and AES outputs or vice versa. They are well suited to systems where the audio and video are kept separate.

## BC2 WDM

Wave Division Multiplexing allows 2 independent wavelengths to be carried on a single fibre. It can often be the most cost effective way to double the capacity of an existing fibre network.



## BC4, BC8 CWDM

Coarse Wave Division Multiplexing allows up to 16 independent wavelengths corresponding to the ITU Recommendations to be carried on a single fibre. Particularly useful when signals need to be carried over leased lines between different sites.

## Splitters and Switches

We provide a range of passive splitters to distribute optical feeds around a facility. These can be provided with different number of outputs and optical levels. The BC2x1 optical switch also allows two signals to be diversely routed with a switch to the reserve feed occurring if the main feed is lost or damaged.

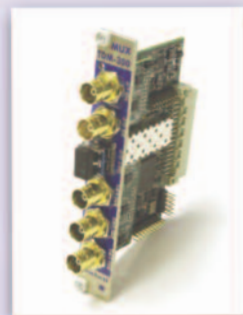
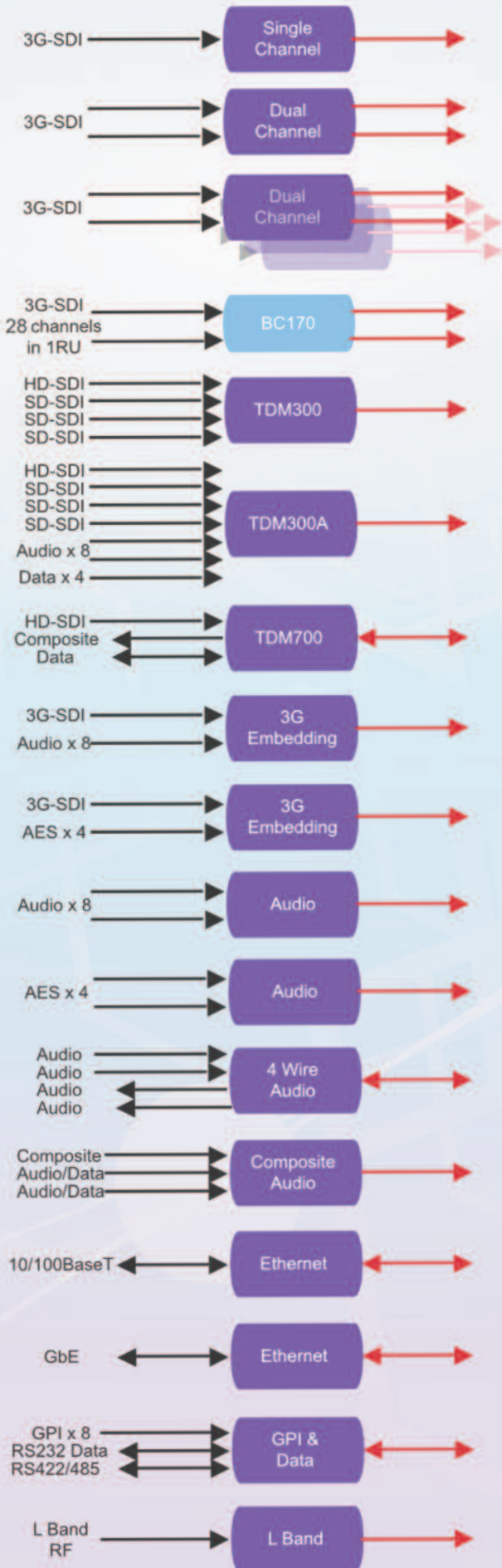
## WB170 Modular 1RU High Density Media Converter

The WB170 is designed as an ultra compact 19" rack-mount media converter for the conversion of up to 28 independent 3G-SDI signals within 1RU. The WB170 fits applications where space is at a premium but no compromises on the broadcast performance can be accepted. It is ideal for linking Studios to a CAR or adding fibre interfacing to an existing routing system. When used with the BC-160P to house a range of CWDM modules, very compact high density links can be achieved, ideal for linking between sites.

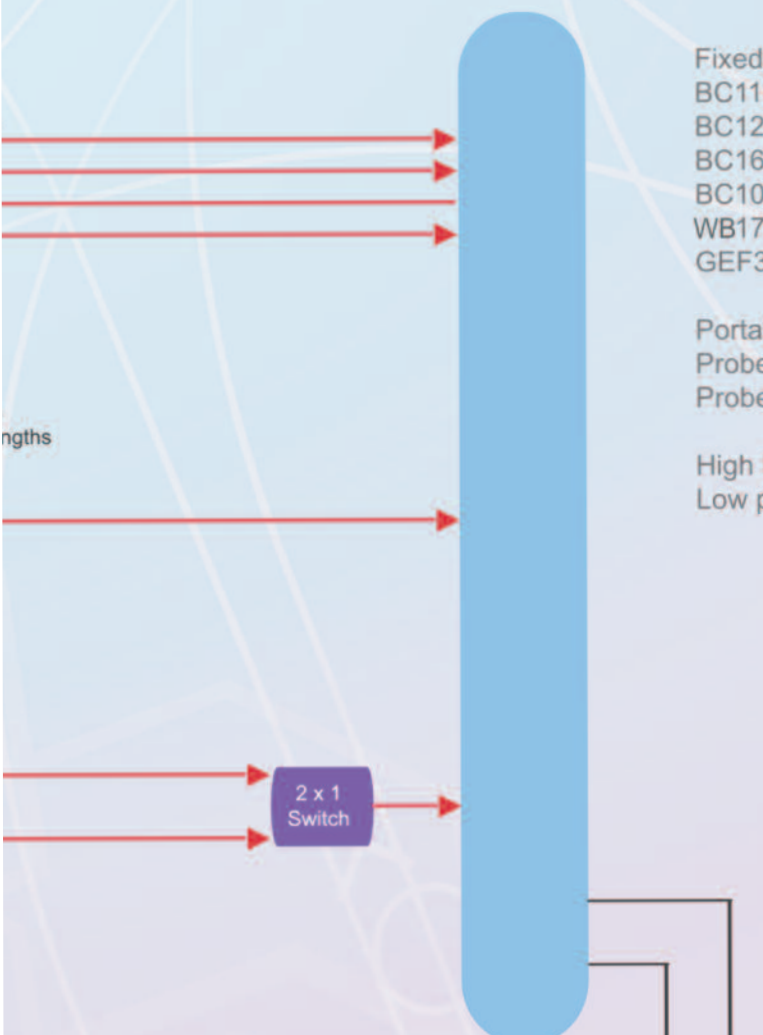
Any of the Bluebell remote stand alone products can be interfaced to the 19" rack based frames.



# Typical Infrastructure



# Applications for Bluebell Fibre Products



Fixed		
BC110	Single Slot	
BC120	Triple Slot	
BC160	6 cards	1RU
BC100	15 cards	3RU
WB170	Wallbox, 28 x 3G	1RU
GEF3/6	Wallbox	

Portable	
Probe-3	3 x BC Series
Probe-6	6 x BC Series

High Packing Density  
Low power consumption



GPI SNMP

# Broadcast Specialists

Bluebell Opticom designs, manufactures and distributes high quality fibre optic transmission equipment for the broadcast, telecommunications and satellite industries.

Bluebell Opticom Ltd is a UK based, privately funded company, and has been designing and manufacturing fibre optic equipment since 1994.

We are specialists in "point to point" fibre technology for the broadcast television industries around the world. We pride ourselves on being a reliable and innovative supplier with an excellent quality to price ratio.

We have always maintained a flexible attitude and approach, often working with customers to provide an application specific solution on tight timescales.

We have thousands of links in daily operational use for key on-air applications and live events. Our customers include leading Broadcasters, Play-Out Centres and service providers, supported through a network of professional Distributors and Partners around the world.

Our products are also used for the critical delivery of video, audio and data services at most premier live world-class sporting events. The applications range from robust multiple outside broadcast links to complete and complex optical infrastructure systems.

All products are supplied with a 5 year factory warranty and are manufactured to ISO 9000 standards. All products are lead-free and RoHS/WEEE compliant.

Our equipment supports

- 3G-SDI, HD-SDI, SD-SDI, DVB-ASI
- Broadcast Quality PAL/NTSC
- AES/EBU and analogue audio
- 10/100/1000 BaseT Ethernet
- Data and RF



Local Contact

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