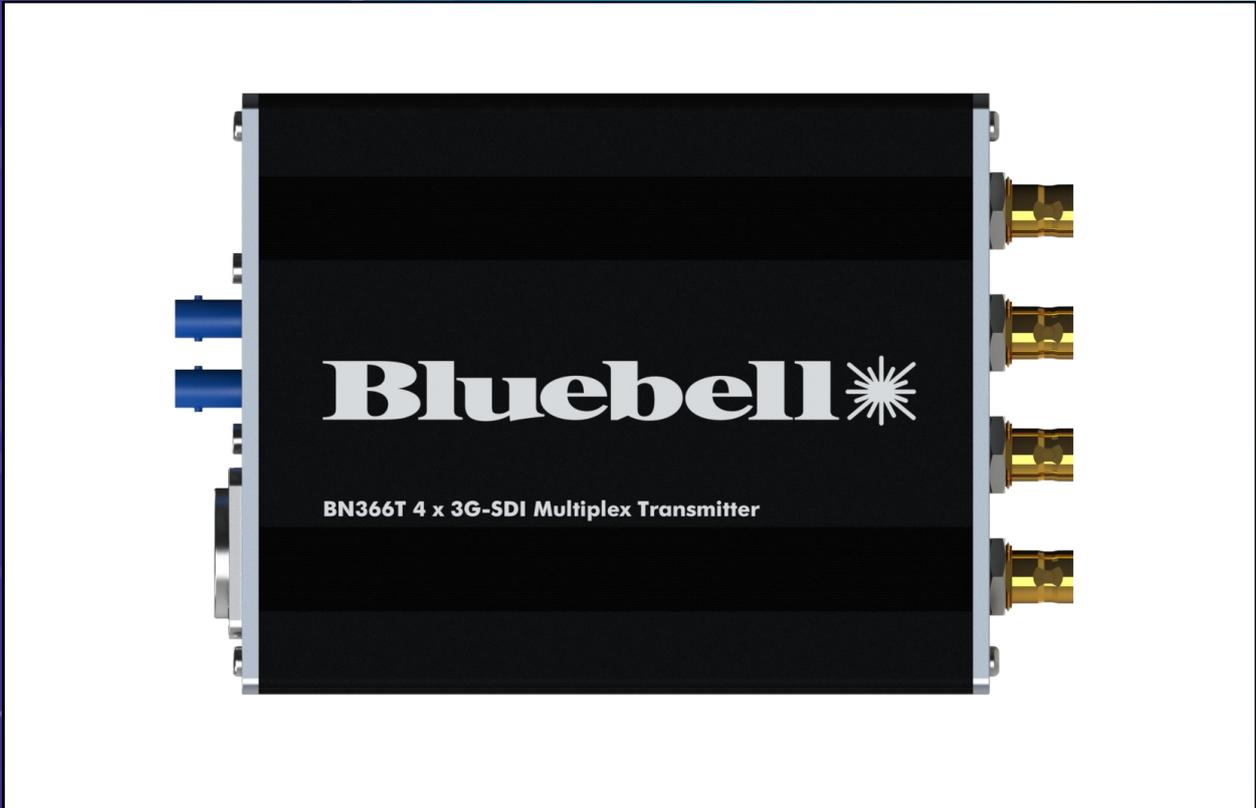


# Bluebell

## Deployable Optical Products for Outside Broadcast



### BN366

### 4K, 3G-SDI, HD-SDI, SD-SDI, ASI

Expanding upon the successful BlueNano range the BN366 is designed for the cost effective transport of 4K UHD signals over fibre. Based around field proven technology the compact units provide the transport of 4 x 3G-SDI signals over a dual fibre link.

The BN366 also provides a compact conversion unit which allows the outputs from up to four cameras to be transmitted over fibre. Units are fully compatible with the BC Series of modular cards and frames allowing units in the field to be integrated into the main OB or CAR network.

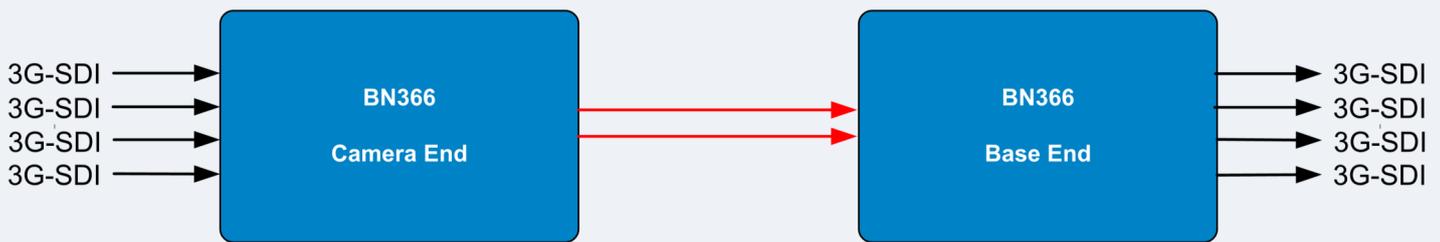
Each signal within a fibre core has a different optical wavelength, enabling interference free transmission over longer distances.

The BN366 is also available using CWDM technology where the 4 x SDI signals are multiplexed onto 1 fibre port.

Power is provided via the compact PS12 unit. Each BN366 has a 4 pin XLR allowing power from a variety of external DC sources in the range 4.5 to 17 V.

Units can be used in conjunction with any standard Bluebell frame or enclosure, for example, allowing a remote BN366T in the field to integrate easily with a 19" frame in the OB truck.

The BN366 is the complimentary video transport to the Caddie-LB 4K, a fibre transport system for users wanting a complete system transport to include comms, camera control and genlock as well as video transport.



The BN366 carries four independent 3G-SDI signals over two fibres to give transparent high performance 4K links. Each BN366 multiplexes two separate wavelengths or services onto each fibre. Each wavelength is independent. In the case above four signals are being transmitted in one direction over two fibres.

The BN366 is also available using CWDM technology where the 4 x SDI signals are multiplexed onto 1 fibre port.

### Specifications for each channel

#### Electrical Input

Standards	SMPTE 424M, SMPTE 292M, SMPTE 259M, SMPTE 297M, DVB-ASI
Equalisation	Automatic to 100 m @ 3 Gb/s Automatic to 200 m @ 1.485 Gb/s Automatic to 300 m @ 270 Mb/s
Connector	1 x 75 Ohm BNC to IEC 60169-8 Amendment 2 per channel
Return Loss	> 15 dB @ 1.485 Gb/s
Format	Reclocked

#### Optical Output

Connector	2 x female ST as standard per unit
Wavelength	1310 nm, 1550 nm,
Optical Power	-3 dBm @ 1310 nm (typical)

#### Optical Input

Connector	2 x female ST as standard per unit Also available with 1 x fibre port
Wavelength	1270-1610 nm
Sensitivity	> -22 dBm @ 3 Gb/s (typical)
Max I/P power	> -1 dBm

#### Electrical Output

Standards	SMPTE 424M, SMPTE 292M, SMPTE 259M, SMPTE 297M, DVB-ASI Automatic rate selection for 3G-SDI, HD-SDI and SD-SDI data rates.
Connector	1 x 75 Ohm BNC to IEC 60169-8 Amendment 2 per channel
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

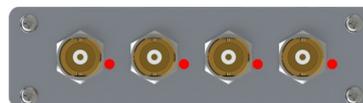
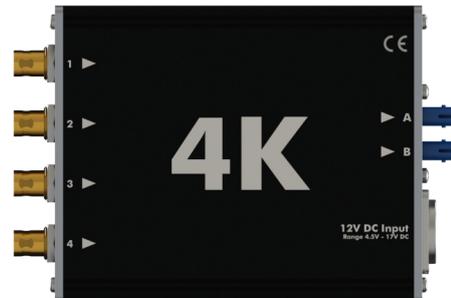
#### General specifications

Length	134 mm
Width	109 mm
Height	30 mm
Weight	200 g
Operating Temp	-30 to +70 °C
Power	2.5 W
Voltage	4.5 to 17 V dc

#### (excluding connectors)

#### Conformance

EMI/RFI:	Complies with 89/336/EEC, EN55022B, EN61000-4-2, EN61000-4-4-(Level 2), EN61000-4-4FTB, EN61000-4-5, EN61000-4-11
Electrical:	Complies with EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4
Laser Safety:	Dependent on SFP fitted. Complies with Class 1 laser product
RoHS:	Complies with Directive 2002/95/EC
Warranty	5 years



End view showing BNC for Electrical I/O



End view showing 4 pin power XLR and Optical via 2 x ST

### Ordering Information

BN366T/S/4T/ST	Singlemode Quad Channel 3G/SDI, HD/SDI Fibre Optic Transmitter Module, Auto-Sensing for SDI, ASI, HD/SDI and 3G/SDI. Fitted with 2 x ST connectors for dual fibre output (1310 and 1550nm). . PS12 power supply ordered separately
BN366R/S/4R/ST	Singlemode Quad Channel 3G/SDI, HD/SDI Fibre Optic Receiver Module, Auto-Sensing for SDI, ASI, HD/SDI and 3G/SDI. Fitted with 2 x ST connectors for dual fibre input (1310 and 1550nm). . PS12 power supply ordered separately. In aluminium enclosure 134 x 109 x 30 mm with internal WDMs built-in for dual fibre I/O NB : Also available with 1 fibre port . Contact Bluebell Sales Office.