

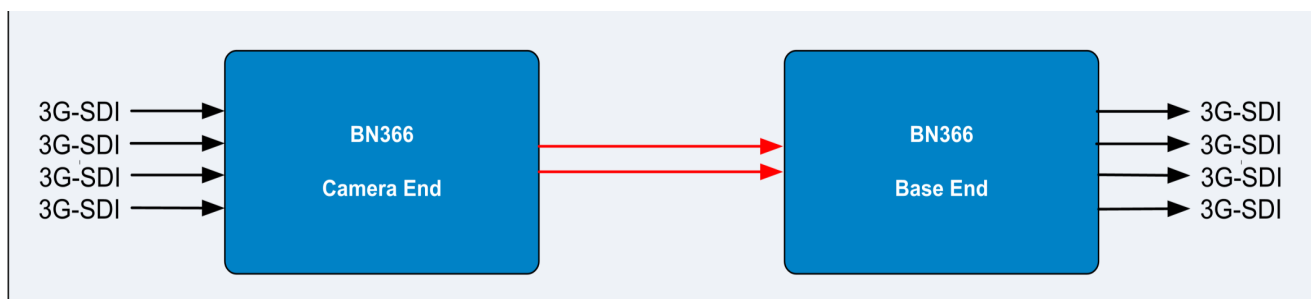
Deployable Optical Products for Outside Broadcast



Description:

- The BN366 enables cost-effective transport of 4K UHD signals via 4 x 3G-SDI over dual fibre.
- Ideal for sending outputs from up to four cameras through a single compact unit.
- Fully compatible with Bluebell's BC Series modular cards and frames for easy integration.
- Uses different optical wavelengths per signal for interference-free long-distance transmission.
- Also available in CWDM version, multiplexing all 4 SDI signals onto one fibre.
- Powered via 4-pin XLR or PS12 power unit (4.5–17V DC input).
- Suitable for standalone use or in standard Bluebell frames and enclosures.
- Pairs well with Caddie-LB 4K for full system transport including comms, genlock, and control.

BN366 Schematic Diagram:



Specifications

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 equalized
Format	Reclocked

General Card Specifications (Excluding connectors)	
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
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

Ordering Information

BN366T	Singlemode Quad Channel 3G/SDI, HD/SDI Fibre Optic Transmitter Module, Auto-sensing for SDI, ASI, HD/SDI and 3G/SDI. PS12 Power Supply ordered separately
BN366R	Singlemode Quad Channel 3G/SDI, HD/SDI Fibre Optic Receiver Module, Auto Sensing for SDI, ASI, HD/SDI, and 3G/SDI PS12 Power supply ordered separately



Bluebell Opticom Limited,
Unit 2 The Quadrant,
Howarth Rd,
Maidenhead,
Berks,
SL6 1AP, UK
Tel: +44 (0) 1628 510055,
Email: sales@bluebell.tv
Website:www.bluebell.tv

