# Bluebell

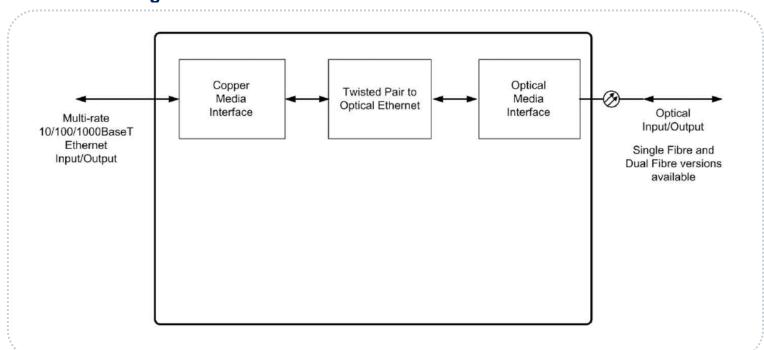
BN810 Ethernet to Optical converter



## **Description:**

- Copper twisted pair to fibre optic media converter.
- Supports 10Base-T, 100Base-T, or 1000Base-T Ethernet data.
- Converts to 100Base-FX or 1000Base-X optical format.
- Includes data isolation transformers for input and output.
- LED indicators for power, network, and fibre activity.
- Available in multimode and singlemode variants.
- Options for full duplex over two fibres or single fibre operation.
- Distances up to 120 km achievable with appropriate SFP.
- CWDM versions available to meet ITU G.694.2 grid specifications.
- Suitable for OB applications with rugged enclosure design.

## Schematic diagram:



#### **Specifications**

Electrical Input/Output		
Connector	RJ45	
Number	1	
Format	Full Duplex 100/1000Base-FX Data	
	Transmission	
	10/100/1000BaseT half/full duplex auto-	
	negotiation	
Standard	IEEE 802.3	
	802.3 10 BaseT	
	802.3u 100 BaseT	
	802.3ab 1000 BaseT	
Optical Input/Output		
Connector	1 female LC/PC Single Fibre Version	
	2 x female LC/PC Dual Fibre Version	
Wavelength	See below; dependent upon model type	
Standard	100Base-FX and 1000Base-X	
Optical Power	- 9dBm @ 850 nm	
	- 15dBm @ 1310 nm multimode	
	- 6dBm @ 1310 nm and 1550 nm	
	singlemode	
	- 6dBm @ CWDM wavelengths	
Sensitivity	- 3dBm to -28 dBm	
Max I/P Power	- 1dBm	

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 (1 year on SFPs)

### **Ordering Information**

BN810S/2/13/LH Singlemode Dual Fibre 10/100/1000BaseT Ethernet to 1000Base-EX Fi

bre Converter Card (1310nm). 40km Long Haul Transceiver

BN810S/2/CWDM/xx/WB Singlemode Dual Fibre 10/100/1000BaseT Ethernet to 1000Base-EX

Fibre Converter Card (CWDM). CWDM 40km Long Haul Transceive

BN810S/13/15 Singlemode Single Fibre 10/100/1000BaseT Ethernet to 1000Base-LX10

Fibre Converter Cards (1310nm). Used in conjuncti on with

BC860/S/15/13 as a matched pair

BN810S/15/13 Singlemode Single Fibre 10/100/1000BaseT Ethernet to 1000Base-LX10

Fibre Converter Cards (1550nm)

Used in conjunction with BC860/S/13/15 as a matched pair. Fitted with LC

connectors as standard

BN810 10/100/1000BaseT Ethernet to 1000BaseT fibre Converter module – No

optics Fitted



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