

BN810 Ethernet to optical converter

48G



- Copper twisted pair to fibre media converter
- Support for 10Base-T, 100Base-T or 1000Base-T data
- Conversion to 100Base-FX or 1000Base-X format
- Choice of SFPs
- Distances of up to 120km achievable
- Rugged enclosure suitable for OB applications

Multi-rate Ethernet to Fibre Converter Card 10/100/1000BaseT

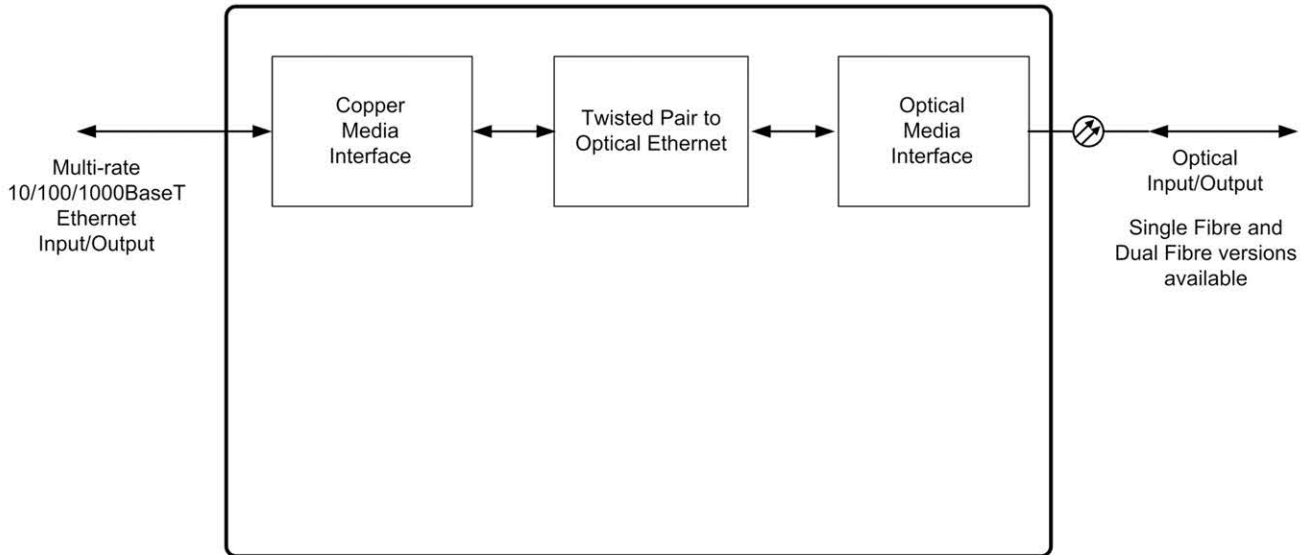
The BN810 is a copper twisted pair to fibre optic media converter for conversion between copper twisted pair 10Base-T, 100Base-T or 1000Base-T data to fibre optic 100Base-FX or 1000Base-X format. Data isolation transformers are provided for the twisted pair input and output. LEDs provide power, network and fibre activity indication.

All Bluebell products are designed to retain maximum integrity of the signal path offering excellent jitter free optical transport.

The BN810 is available in multimode and singlemode variants to suit any fibre application. Versions can be selected which provide full duplex operation over two fibres or a single fibre with distances of 120km achievable with the right SFP. CWDM versions are available to support the ITU G.694.2 grid specifications.

The BN810 can be used as a remote Ethernet conversion device which can be paired with another BN810 or the rack-based BC860 or BC862 Ethernet conversion cards.

Schematic Diagram



Specification

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 x female LC/PC Single Fibre Version 2 x female LC/PC Dual Fibre Version
Wavelength Standard	See below; dependent upon model type 100base-FX and 1000base-X
Optical Power	- 9 dBm @ 850 nm -15 dBm @ 1310 nm multimode -6 dBm @ 1310 nm and 1550 nm singlemode -6 dBm @ CWDM wavelengths
Sensitivity	- 3 dBm to - 28 dBm
Max I/P power	-1 dBm

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 Fibre 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 Transceiver
BN810S/13/15	Singlemode Single Fibre 10/100/1000BaseT Ethernet to 1000Base-LX10 Fibre Converter Cards (1310nm). Used in conjunction 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.



Bluebell Opticom Limited
Unit 2 The Quadrant
Howarth Rd
Maidenhead
Berks
SL6 1AP
UK

Tel: +44 (0) 1628 510055, Fax: +44 (0) 1628 510057
Email: sales@bluebell.tv Website: www.bluebell.tv

