

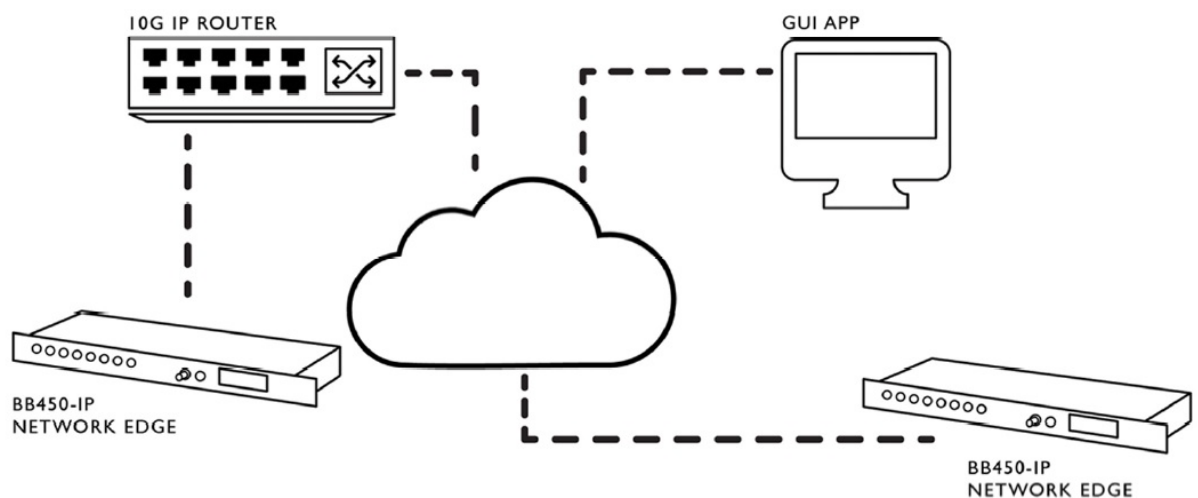
## Network Edge Broadcast Encapsulator



### Description:

- The **BB450T-IP** is a professional Broadcast Network Edge Encapsulator that converts 3G-SDI and 8 channels of differential line-level audio into an IP stream using SMPTE 2022-6/7 and SMPTE 2110 standards.
- The **BB450R-IP** is a matching Decapsulator that extracts 3G-SDI and 8 channels of audio from SMPTE 2022-6/7 or 2110 IP networks.
- Part of the Bluebell **Edgware** range, designed to bridge traditional broadcast workflows with IP-based infrastructures.
- Supports 10G networks with unicast or multicast functionality over singlemode fibre, allowing deployment far from the main IP network hub.
- Controlled via an in-band web GUI for managing ingest, output, and switching between SMPTE formats.
- Front panel display provides host MAC/IP address and destination info.
- Can operate as a network edge device for AES67, AVB, and Dante when in SMPTE 2110 mode.
- Enables broadcasters to move seamlessly into IP workflows for flexible, distributed production.

### BB450



Specifications

Input & Output	
Video	
Connector	BNC
Standards	3G-SDI, HD-SDI, SD-SDI
Compliance	SMPTE ST424M, 292M 259M
Data Rates	270Mb/s to 3Gb/s
Audio	
Connector	3-Pin XLR Panel Mount Plug/Socket
Standards	Differential Line Level Analogue Audio
Compliance	18dBFS i/p to 0dBu o/p (Europe) -24dBFS i/p to 0dBu o/p (USA)
Optical SFP characteristics	
Wavelength	1310nm
SFP Data Rate	10Gb/s
SFP Transceiver	10G Ethernet Optical Transceiver

Conformities	
EMI/RF	Complies with 89/336/EEC and EN55022B
EMC	Complies with EN61000-4-2, EN61000-4-4(Level 2), EN61000-4-4FTB, EN61000-4-5 and EN61000-4-11
Electrical Imunity	Complies with EN61000-6-1, EN6100-6-2, EN61000-6-3 and EN61000-6-4
Laser Safety	Class 1 Laser Safety compliant, for additional conformities see datasheet of SFPs fitted
RoSH	Complies with Directive 2002/95/EC
Physical	
Depth	160mm
Width	19ins. (482mm)
Height	IRU (42MM)
Weight	1.5kg
Operating Temperature	-30C to +70C
Power	4.5 to 17V DC 60W

Ordering Information

BB450T-IP Broadcast Video & Multichannel Audio Encapsulator

BB450R-IPBroadcast Video & Multichannel Audio Decapsulator



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.t

