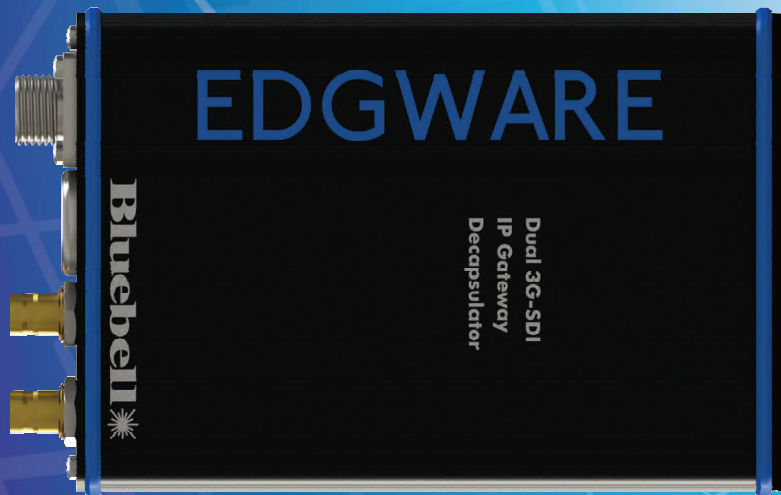


3G-SDI to IP Encapsulator and Decapsulator Edge Device Preliminary Datasheet



Edgware by Bluebell 3G-SDI to IP Encapsulator and Decapsulator

The Edgware Encapsulator Module is a simple yet very powerful edge device that sits between the Broadcast world and IP networks.

A single channel of SD-SDI, HD-SDI or 3G-SDI is wrapped up in IP wrappers and is multicast over standard 10G networks.

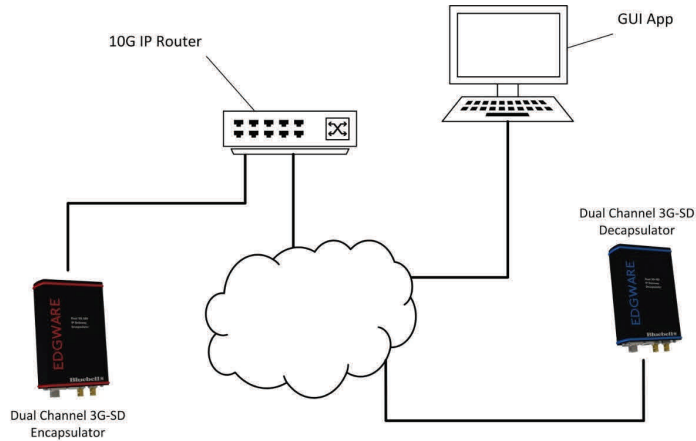
A simple GUI allows the users to set up two IP address and the unit will pass uncompressed video between them. Using hitless transfer protocol your live content arrives unaffected.

This Encapsulator works with the Edgware Decapsulator using SMPTE 2022-6 with an option for SMPTE2022-7 coming soon.

This unit supports AIMS, AMWA and NMOS. TR03 and ST2110 are currently in development.

Edgware by Bluebell 3G-SDI to IP Encapsulator and Decapsulator

Schematic Diagram Edgware



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 Equaliser and rellocking can be bypassed to support data rates down to 50 Mb/s.
Connector	75 Ohm BNC per IEC 60169-8 Amendment 2
Return Loss	> 15 dB @ 1.485 Gb/s

Electrical Output

Connector	75 Ohm BNC per IEC 60169-8 Amendment 2
Return Loss	> 15 dB @ 1.485 Gb/s
Polarity	Non inverting
Signal Level	800 mV +/- 10%
DC Offset	0 +/- 0.5 V
Jitter	<0.15 UI line equalised
Format	Driven active loop out

Optical Output

Connector	1 x female LC as standard per channel
Wavelength	850 nm multimode
Sensitivity	> -25.0 dBm @ 3 Gb/s > -25.5 dBm @ 1.485 Mb/s > -26.0 dBm @ 270 Mb/s
Max I/P power	> -1 dBm
Data rate	270Mb/s; 1.485Mb/s, 3Gb/s

IP Interface

Connector	Duplex LC
Interface	Multimode Duplex SFP, 10G Ethernet
Encapsulation	SMPTE2022-6, SMPTE2022-7, ST2110, TR03
Compatibility	10GBase SFP+ 10G, 10GBase-LR, SFF-8431 SFP+, MSA

General Enclosure specifications

Depth	165 mm
Width	110 mm
Height	45mm
Weight	100 g
Operating Temp	-30 to +70 °C
Power	3 W

Conformance

EMI/RFI:	Complies with 89/336/EEC, EN55022B,
Electrical:	Complies with EN61000-6-1, 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

Optical Output

Connector	1 x female LC as standard per channel
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Ordering Information

Please contact your nearest dealer for more information