

## BALBOX Embedded Audio Signal Processors



### FEATURES

- **Embedded audio stereo to mono mix**
- **Embedded audio shuffler**
- **Embedded audio group shuffler**
- **Two SDI outputs**
- **SDI bypass relay**
- **Standalone or rack-mountable in 1U**
- **Universal mains powered stand-alone unit**

*EASP* units allow for the processing of audio embedded within an SDI video signal.

The *EASP010* was designed to carry the audio from a full audio group through a low cost MPEG encoder which only had the capacity for a half audio group. In this situation the two stereo pairs are mixed to produce two independent mono signals and re-embedded as one half of the audio group. It will intelligently process SDI inputs which originally only contain half audio groups. The user may select which of the four possible audio groups is to be processed.

The *EASP011* operates as an audio shuffler, which allows individual audio channels within a group to be swapped, mixed, and copied. It incorporates some of the functionality of the *EASP010* but is only intended to process the first audio group. This unit is typically used with dual language services.

The *EASP012* completes the range of embedded audio processing but at group level. It allows audio groups to be exchanged, copied, and for processing of audio packets 'marked for deletion'.

The *EASP series* units are housed in a robust case designed to be free-standing but up to four *BALBOX* style units can be mounted in a 1U high tray.

The universal mains power is supplied via an IEC inlet.

# SPECIFICATION – EASP Series

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*All EASP units share common SDI processing and functions:-*

## SDI INPUT CHARACTERISTICS

Input signal	270Mb/s serial digital video to SMPTE RP259M
Line standard:	625/50 or 525/60 automatically detected
Cable equalization:	up to 250m of Belden 8281 coaxial cable or similar
Input impedance:	75 ohm terminating
Input return loss:	>15dB
Input connector:	BNC socket

## SDI OUTPUT CHARACTERISTICS

No of outputs:	2
Output signal	270Mb/s serial digital video to SMPTE RP259M
Bypass:	Power fail/user select between SDI input and main SDI output
Output impedance:	75 ohm
Output return loss:	>15dB
Output connectors:	BNC socket x 2

## EMBEDDED AUDIO PROCESSING

<b>EASP010</b>	Stereo to mono mix
<b>EASP011</b>	Embedded audio shuffler within first audio group
<b>EASP012</b>	Embedded audio group shuffler

## CONTROLS

DIP switches:	Manual bypass, mode
Rotary control:	Channel, group and function selection

## INDICATORS

LED 1:	Bi-colour, status
LED 2:	Power

## INSTALLATION DATA

Package:	Standard <i>BALBOX</i> housing, with three 75ohm BNC signal connectors and one 9w D-type socket.
Size:	184 x 103 x 42.4mm.
Weight:	950g.
Mains supply:	90 – 250Vac
Consumption:	<15VA

*Refer to **BALBOX** data sheet for information on 1U tray – **BOXRACK***

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## ORDER CODE

**EASP010**

**EASP011**

**EASP012**

**BOXRACK**

## DESCRIPTION

BALBOX Embedded ‘Stereo to Mono’ Converter.

BALBOX Embedded Audio Shuffler.

BALBOX Embedded Audio Group Shuffler.

Tray to hold up to 4 *BALBOXes* in 1U 19” rack.

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