

BALBOX AES/EBU Digital Audio Extractor



FEATURES

- Extracts both AES/EBU signals from the group
- Re-clocked SDI output
- Audio mute function
- Handles 20/24-bit synchronous audio
- Integral mains power supply

The *BALBOX* SAEX010 allows extraction (de-embedding) of both AES/EBU signals from any one of the four groups available within the serial component video ancillary data space. Each AES/EBU signal contains either a stereo pair or two mono audio channels.

A re-clocked SDI output allows the cascading of a number of SAEX010 to extract audio from other groups within the same SDI signal.

The group to be extracted is selected by a rotary switch, and a warning LED indicates if the selected group is not present. A switch is provided to allow the user to mute the two AES/EBU outputs.

The AES/EBU audio which is to be extracted must be synchronous with the video and sampled at 48kHz. The SAEX010 will handle both 20 and 24-bit audio.

The SDI input has automatic cable equalisation for up to 250m of Belden 8281 cable, or similar.

The SAEX010 is complemented by the *BALBOX* SAEM010 digital audio embedder, and is fully compatible with analogue audio embedders and extractors in the *BAL* range of products.

The unit has an integrated mains power supply (universal 90 to 250Vac range) with filtered IEC connector for safe and reliable installation.

The SAEX010 is housed in a robust steel case, and may be combined with other *BALBOX* units in a simple 1U tray.

SPECIFICATION – SAEX010

INPUT

Input signal: 270 Mb/s serial NRZI to SMPTE RP259M and EBU Tech 3267 with digital audio embedded to SMPTE 272M-AC (synchronous audio at 48kHz)
Impedance: 75ohm
Return loss: >15dB, 10MHz to 270MHz
Input equalisation: automatic up to 250m of Belden 8281 cable or similar

SDI OUTPUT

Output: 270 Mb/s serial NRZI to SMPTE RP259M and EBU Tech 3267
Impedance: 75ohm
Return loss: >15dB, 10MHz to 270MHz
Output level: 800mVp-p +/-20mV across 75ohm termination

AES/EBU DIGITAL AUDIO OUTPUTS

Number of outputs: Two (one for each AES/EBU signal within the extracted group)
Output: Balanced AES/EBU
Impedance: 110ohm
Output level: 3Vp-p +/-10% across 110ohm

CONTROLS

AES audio mute: DIP switch (position1)
Audio group selection: Rotary switch, positions 0-3

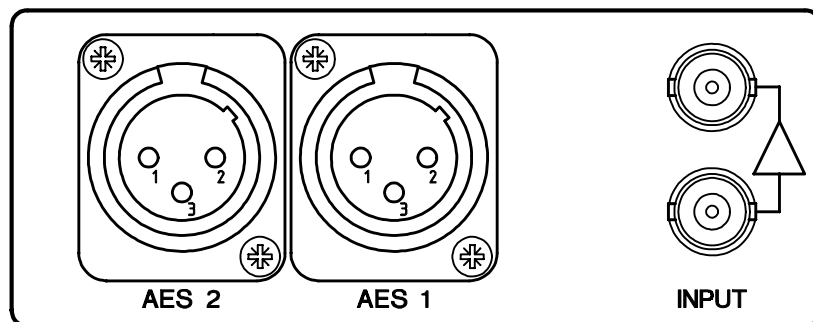
INDICATORS

Tri-colour status LED:
Red- no SDI input
Orange- SDI present – no embedded audio detected
Green- SDI present – embedded audio detected

INSTALLATION DATA

Package: Standard *BALBOX* housing, with two 'XLR' male and two 75ohm BNC connectors
184 x 103 x 42.4mm.
Weight: 950g.
Mains supply: 90 – 250Vac
Consumption: <10VA

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



Rear Connectors

ORDER CODE

SAEX010
BOXRACK

DESCRIPTION

BALBOX AES/EBU Digital Audio Extractor
Tray to hold up to 4 *BALBOX*es in 1U 19" rack.
