

# Digital Distribution Amplifier DA210D

## Description

The DA210D is an AES/EBU digital distribution amplifier matrix housed in a 1U, 19", rackmount case with integral mains power supply. The unit offers multiple operating configurations to enable sample rate conversions, re-framing to an external reference signal and has a convenient analogue audio monitoring output.

## Features:

**Operating Modes** An internal switch is used to set the DA210D in one of the following modes.

**Mode 1** One input, ten output distribution amplifier, the input is reclocked for jitter attenuation.

**Mode 2** As mode 1, but dual one input to five outputs.

**Mode 3** One input, ten output distribution amplifier, the input is sample rate converted and frame synched to a reference signal applied to input 2.

**Mode 4** As mode 3, but dual one input to five outputs, with the first input sample rate converted and frame synched to second input.

**Mode 5** One input, ten output sample rate convertor and distribution amplifier. The input is sample rate converted to provide ten outputs at either 48, 44.1 or 32 kHz from an internal generator.

**Inputs** Two transformer balanced rear panel XLR inputs with selectable 110/75 ohm input termination. Input 1 and 2 can be directly connected to outputs 2 and 10 respectively, for loop through operation. SPDIF signals can also be wired unbalanced to the inputs.

**Outputs** Ten transformer balanced rear panel XLR outputs with 110 ohm output impedance.

**Monitoring** Front panel LEDs confirm the presence of a locked digital signal on each input and display the sample rate and warn of data errors. A stereo headphone jack with fixed level (0 dBu) can be switched between the two inputs.

## Applications:

The DA210D digital distribution amplifier is ideal for use in both audio and video installations where AES/EBU audio distribution is required. Audionics also manufacture a digital audio distribution amplifier card frame. The card frame has twelve distribution amplifiers each with ten outputs and an integral modular power supply.

## Key Features

**Multiple operating modes**

**Built in sample rate converter**

**External reference input**

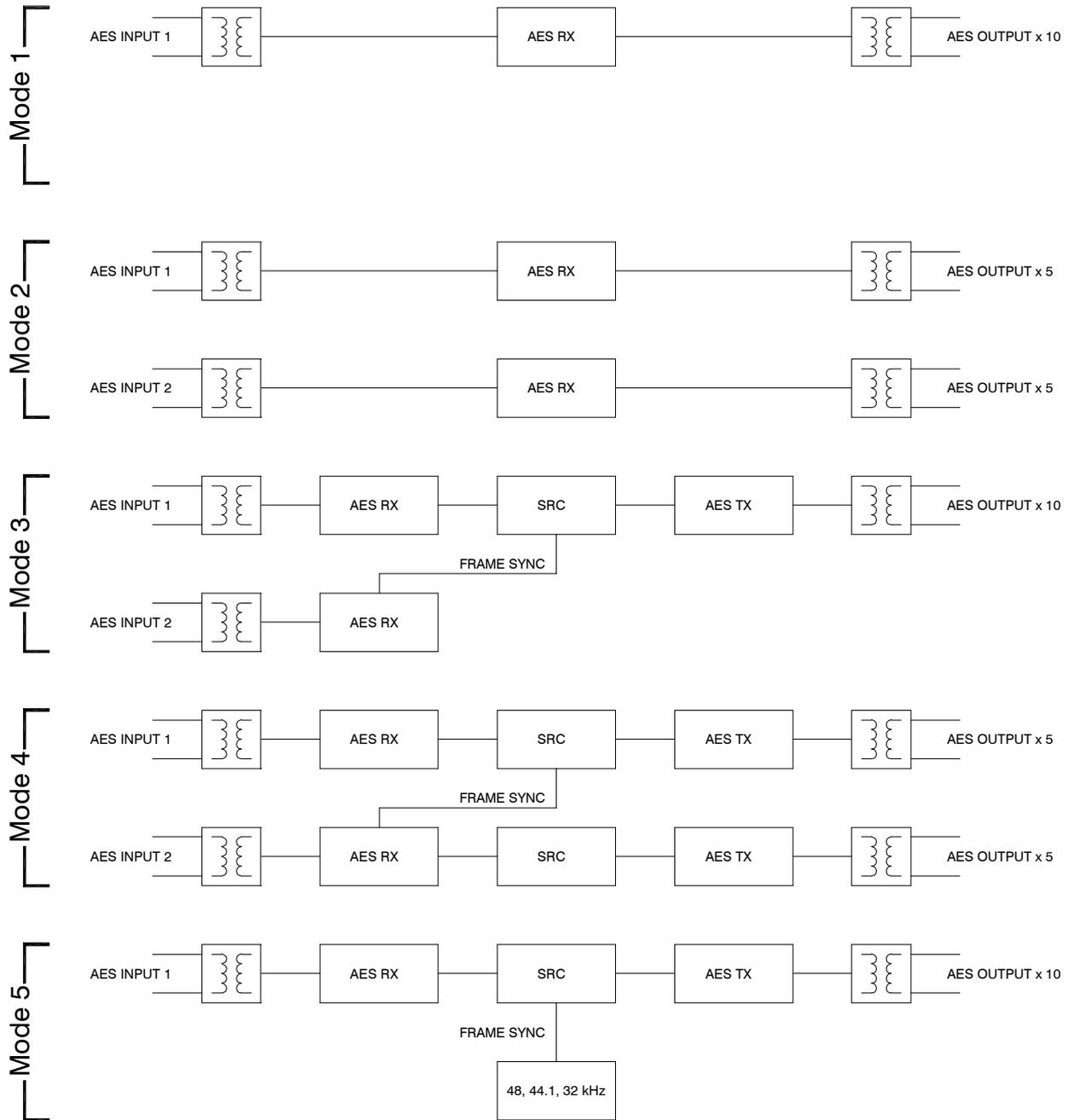
**Analogue output for monitoring**



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## DA210D Operating Modes

### Technical Specifications

Input Impedance

Output Impedance

Input Level Sensitivity

Output Jitter

Propagation Delay

Dimensions

Power

Weight

### DA210D

Transformer balanced – 110/75 ohms selectable

Transformer balanced – 110 ohms

400mV peak to peak

Negligible <3nS peak to peak

Mode 1 & 2 - <500ns, mode 3 & 4 - <10L<sub>s</sub>, mode 5 - <20L<sub>s</sub>

1U (44mm) high, 245mm deep

220-240V, 20W

5kg