

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 relocked 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 converter 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

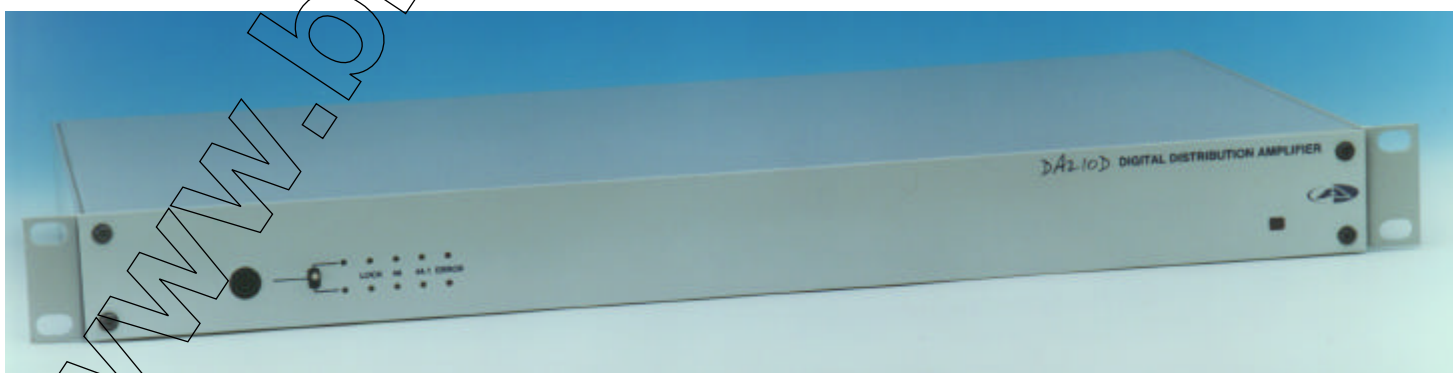
External reference input

Analogue output for monitoring

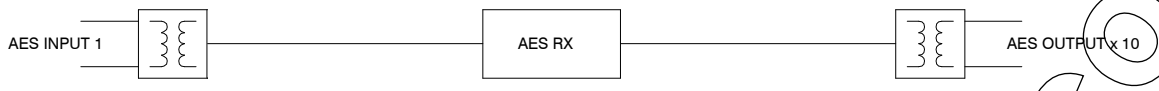


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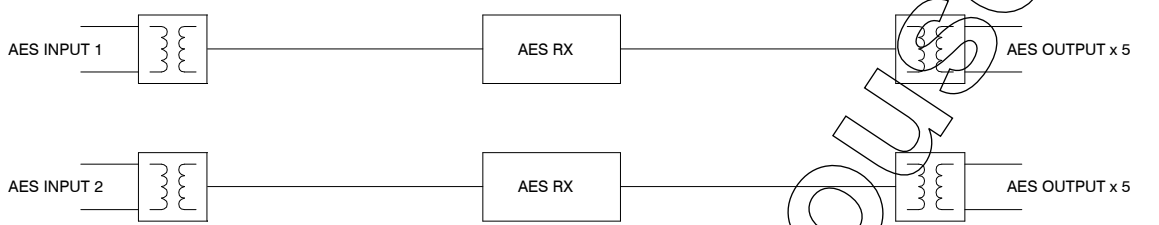
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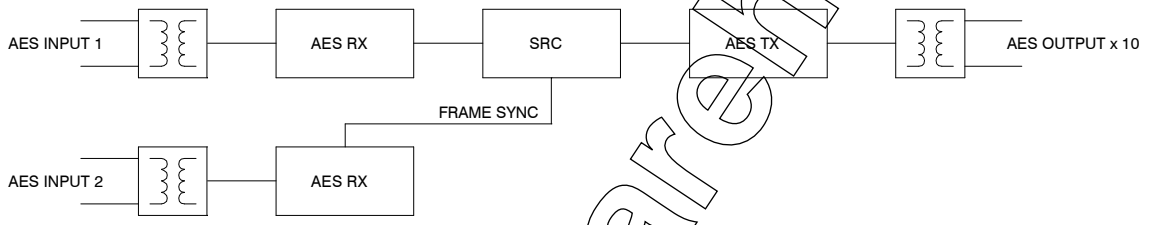
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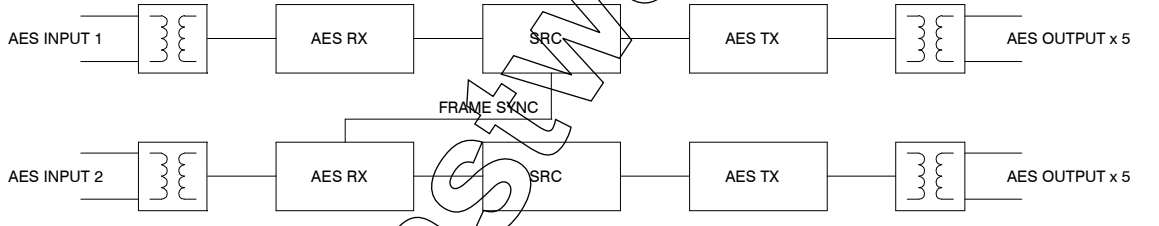
Mode 2



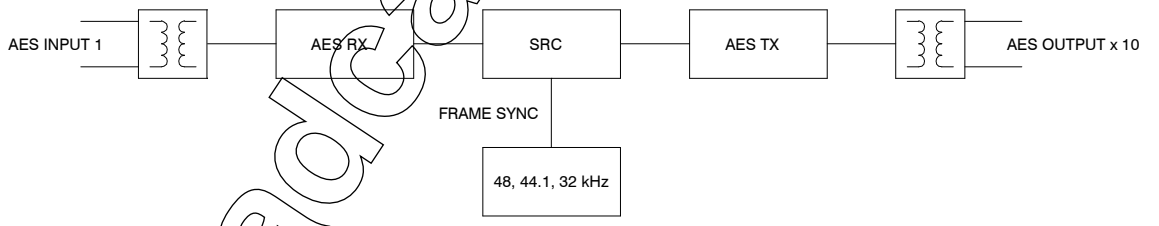
Mode 3



Mode 4



Mode 5



DA210D Operating Modes

Technical Specifications	DA210D
Input Impedance	Transformer balanced – 110/75 ohms selectable
Output Impedance	Transformer balanced – 110 ohms
Input Level Sensitivity	400mV peak to peak
Output Filter	Negligible <3nS peak to peak
Propagation Delay	Mode 1 & 2 - <500ns, mode 3 & 4 - <10Ls, mode 5 - <20Ls
Dimensions	1U (44mm) high, 245mm deep
Power	220-240V, 20W
Weight	5kg

Specification and designs are subject to change without prior notice for the purposes of improvement. E & OE