



AAD08

Dual channel 1 to 8 analog audio distribution amplifier

A Synapse® product

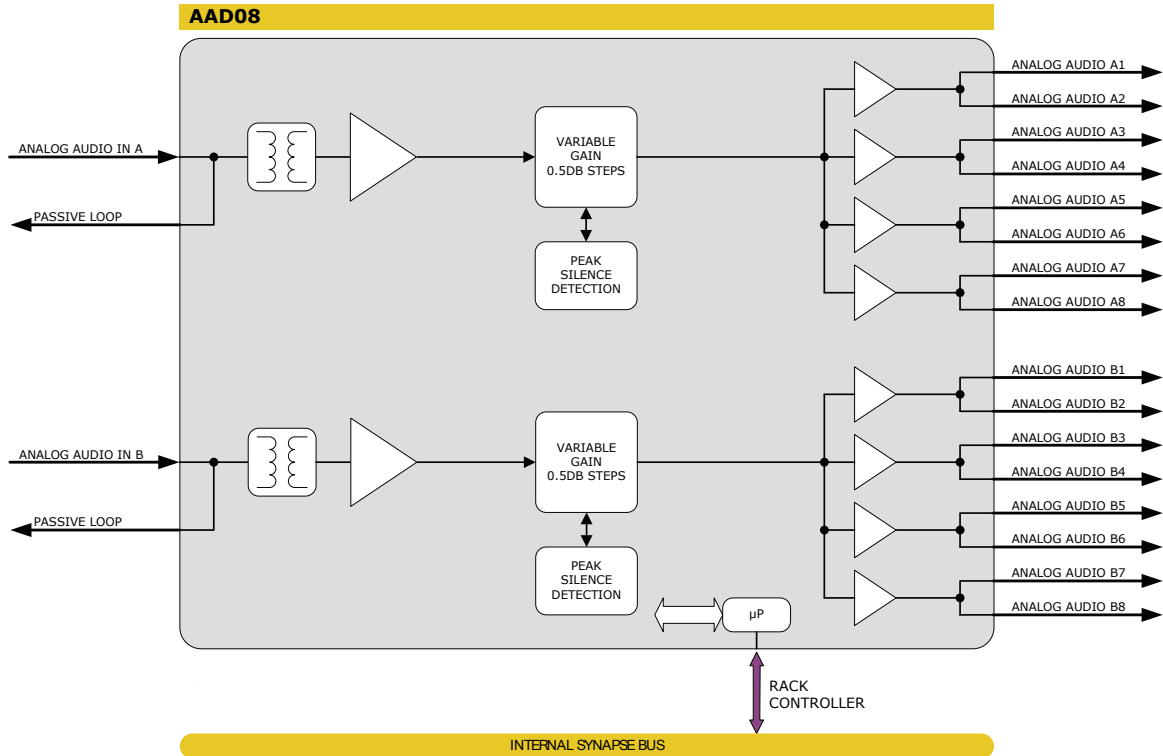
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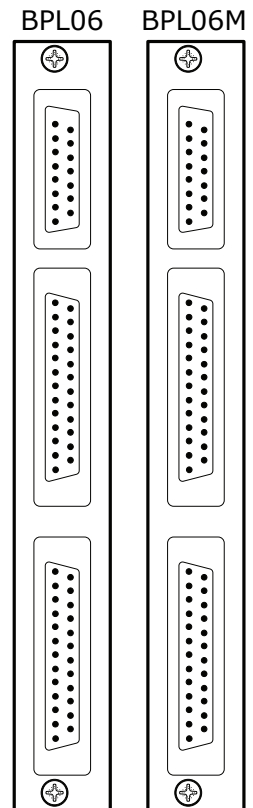
Block schematic & I/O panel



ANALOG AUDIO INPUTS AND PASSIVE LOOP

ANALOG AUDIO OUTPUTS
Channels A 1-4 and B 1-4 on BPL06
Channels A 1-8 on BPL06M

ANALOG AUDIO OUTPUTS
Channels A 5-8 and B 5-8 on BPL06
Channels B 1-8 on BPL06M



For sub-D pinning see the manual at www.axon.tv

Features

The AAD08 Analog Audio Distribution Amplifier provides dual channel 8 way distribution. It utilizes high quality components to provide high reliability and excellent audio performance. The AAD08 features Real Transformers on its inputs, Variable Gain, Peak Detection and Silence Detection.

- 8 balanced outputs per channel
- Transformer coupled input
- Low impedance output with transformer properties
- Level control (0.5dB increments)
- Peak detection 0 dBu to 24 dBu
- Silence detection
- 24dBu maximum input level
- Full control and status monitoring through the front panel of the SFR04/SFR08/SFR18 frame and the Ethernet port (ACP)

Applications

- Generic analog audio distribution
- Analog audio silence and clipping detection/probing
- Analog audio galvanic isolation / hum suppression

Ordering information

Module:

- **AAD08:** Dual channel 1 to 8 analog audio distribution amplifier

Standard I/O:

- **BPL06_AAD08:** I/O panel for AAD08 with 4 stereo outputs on sub-D
- **BPL06M_AAD08:** I/O panel for AAD08 with 8 mono outputs on sub-D

Specifications

Analog Audio Input

Type	Balanced analog audio
Number of Inputs	2 Transformer coupled
Connector	15 pins female Sub-D
Impedance	10k Ohms nominal (differential)
Signal Level	24dBu max
Level Control Range	+30dB to -90dB 0.5dB increments
Frequency Response	< ±0.1dB, 20Hz to 20kHz (broadcast quality)
Dynamic Range	100dB @-60 dBFS
THD+N	< 0.002% (>96dB) @ 1kHz < 0.003% (> 94dB) @ 20Hz to 20kHz,
CMRR	> 60dB at 1kHz

Analog Audio Output

Type	Balanced analog audio
Number of Outputs	2
Connector	25 pins female Sub-D
Impedance	50 Ohms balanced
Signal Level	24dBu max

Miscellaneous

Weight	Approx. 250g
Operating Temperature	0° C to +50° C
Dimensions	137 x 296 x 20 mm (HxWxD)

Electrical

Voltage	+24V to +30V
Power	<8 Watts