

IQADA00

Single/Dual Channel Analog Audio Distribution Amplifier

The IQADA00 provides dual analog inputs with up to five outputs per input, or a single analog input with up to ten outputs.

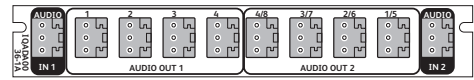
Features

- Configurable for 1 input to 10 outputs, or 2 inputs to 5 outputs per input (dependant on rear panel type)
- Very low THD+N
- Output gain remotely adjustable from +24 dB to -24 dB with fine control
- +24 dBu headroom

Why should you choose this module?

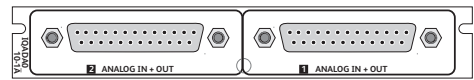
- Ideal stereo distribution amplifier for large analog audio applications
- Maintenance of audio quality ensured by very low THD+N and 24 dBu input headroom
- Up to 10 balanced transformerless outputs

Order codes



IQADA0036-1A

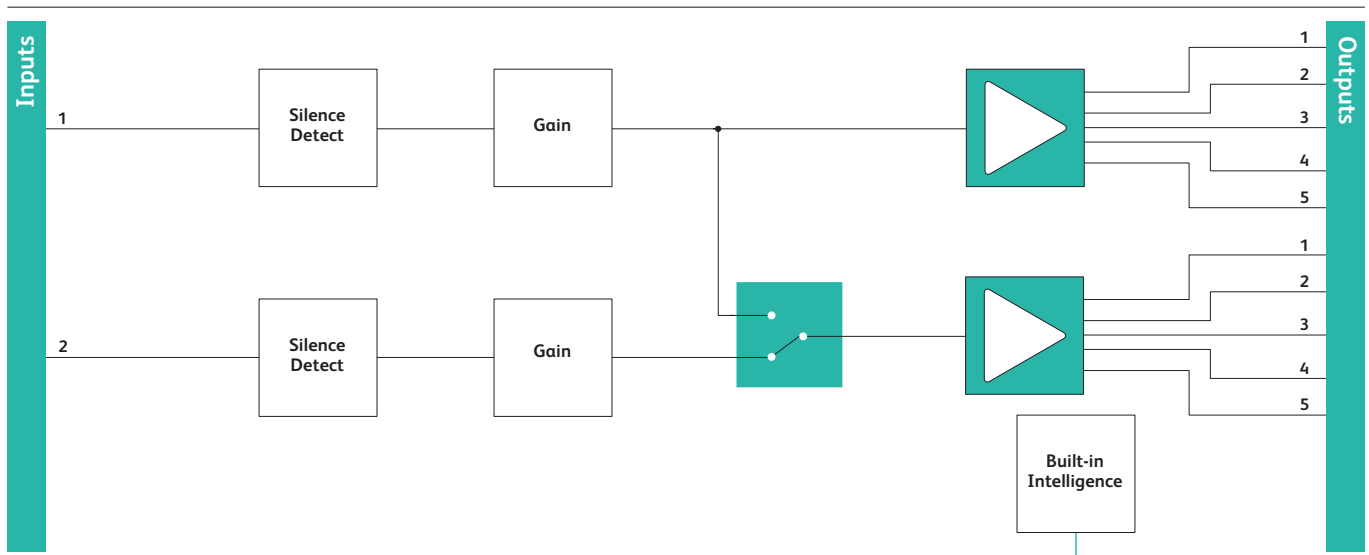
Single/Dual Channel Analog DA. Balanced Screw-terminal Audio Connections. Configurable for 1 input to 8 outputs or 2 inputs to 4 outputs per input.



IQADA0010-1A

Single/Dual Channel Analog DA. Balanced D-type Audio Connections. Configurable for 1 input to 10 outputs or 2 inputs to 5 outputs per input.

For more details on enclosure types please refer to Frames and Hardware section.



Block Diagram for IQADA0010-1A

Technical Specification

Inputs and Outputs

Signal Inputs

Analog 2 channels balanced via screw-terminal or D-type connector

Signal Outputs

Analog 4 (5) per input channel balanced via screw-terminal (or D-type connector)
Note: Configurable for 1 input to 8 (10) output operation

Card Edge and RollCall Controls

Indicators

Power up or CPU fault	Good = Off/Fault = Red
CPU running but input 1 not detected (both inputs or primary input when in single channel mode)	Input detected = Off/Not Detected = Yellow
CPU running but input 2 not detected (both inputs or primary input when in single channel mode)	Input detected = Off/Not detected = Yellow
Normal operation with input detected (either input or primary input when in single channel mode)	Input not detected = Off/Input detected = Green

Controls

Mode	Single, Dual channel
Fine gain adjustment	±0.5 dB additional to the coarse gain level, separately adjustable for each input

Functions Available via RollCall

Gain (separate L and R)	+24 dB to -24 dB in 0.5 dB steps
Silence detect	Level adjustable, - 15 to -25 dBu in 1 dB steps
Warning timer	1 to 60s (for silence detection)

Reporting (* also Logged)

Silence detected	*Silence Detected (L and R)
RollTrack controls	On/Off, Index, Source, Address, Command, Status, Sending
RollTrack	Unused Input 1 Present Input 1 Silent Input 2 Present Input 2 Silent Input 2 Silent

Specifications

Analog input / output level	Headroom set to: +24 dBu (17.5 V pk to pk) Gain at Unity
Analog input impedance	10 k Ohms (600 Ohm Option)
Analog output impedance	Balanced <50 ohms
Total harmonic distortion + noise	<-86 dBu (0.005%) at 700 Hz, 24 dBu input and 0 dB gain
Noise floor	<-90 dBu 0 dB gain (20 Hz to 20 kHz)
Gain accuracy	<±0.2 dB @ 0 dB
Gain error (channel 1 to channel 2)	<±0.2 dB @ 0 dB
Common mode rejection	<-60 dB (20 Hz to 20 kHz)
Frequency response	+0.1 dBu to -0.3 dBu (20 Hz to 20 kHz with reference to 1 kHz)
Channel 1 to 2 cross talk	<-90 dB
Headroom (in and out)	24 dBu

Power Consumption

Module power consumption	6.5 W (A Frames) 3.5 Pr (B Frames)
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