

IQADA00

Single/Dual-channel Analog Audio Distribution Amplifier

With up to ten balanced outputs, the IQADA00 is an ideal stereo distribution amplifier for large analog audio applications.

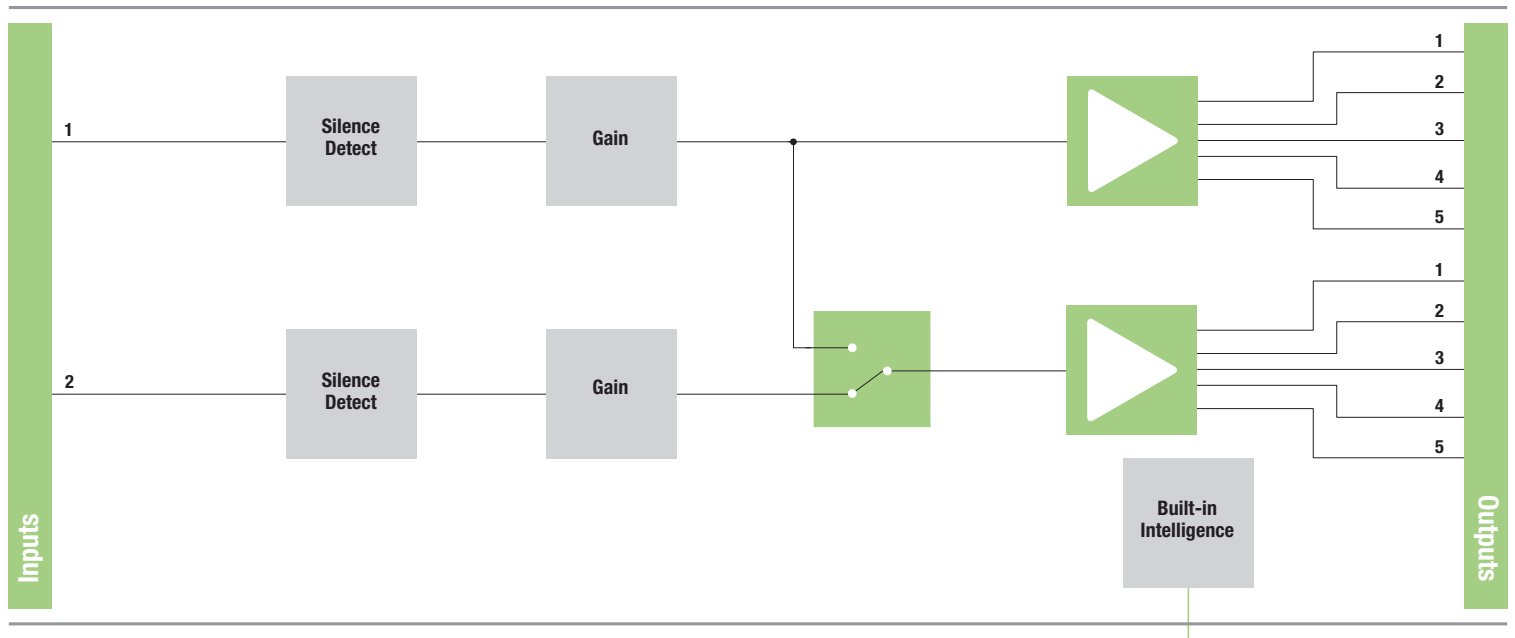
The IQADA00 from Grass Valley provides dual analog inputs with up to five outputs per input, or a single analog input with up to ten outputs.

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 ten balanced transformerless outputs
- Full GV Orbit compatibility provides an all-inclusive remote configuration, control and monitoring solution
- Comprehensive SNMP support allows easy integration with third-party Network Management Systems

KEY FEATURES

- Configurable for one input to ten outputs, or two inputs to five outputs per input (dependent on rear panel type)
- Very low THD+N
- Output gain remotely adjustable from +24 dB to -24 dB with fine control
- +24 dBu headroom
- GV Orbit control and monitoring compatible



Block Diagram for IQADA0010-1A

Network Intelligence, Control & Monitoring

SPECIFICATIONS

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 Remote 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

Remote Control Functions

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)

Logging

Input x State: OK, WARN Silence (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

General Specifications

Analog input/output level: Headroom set to: +24 dBu (17.5 Vp-p) gain at unity

Analog input impedance: 10 k Ω (600 Ω option)

Analog output impedance: Balanced <50 Ω

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:

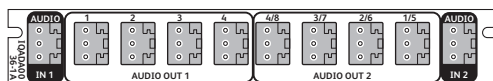
6.5W (A Frames)

3.5 Pr (B Frames)

ORDERING

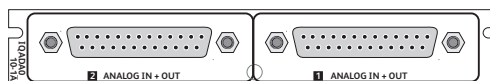
IQADA0036-1A

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 the IQ Modular Enclosures datasheet.

DS-PUB-2-0833B-EN



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