

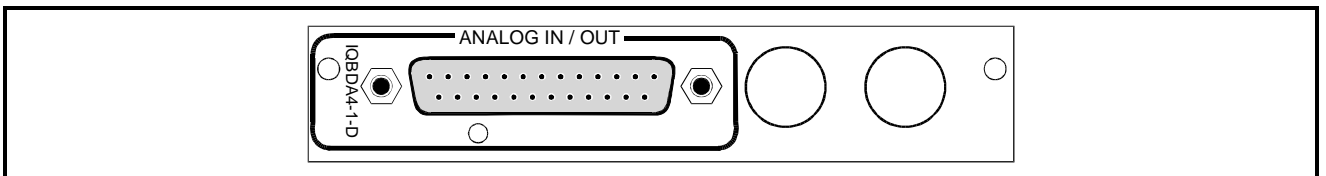
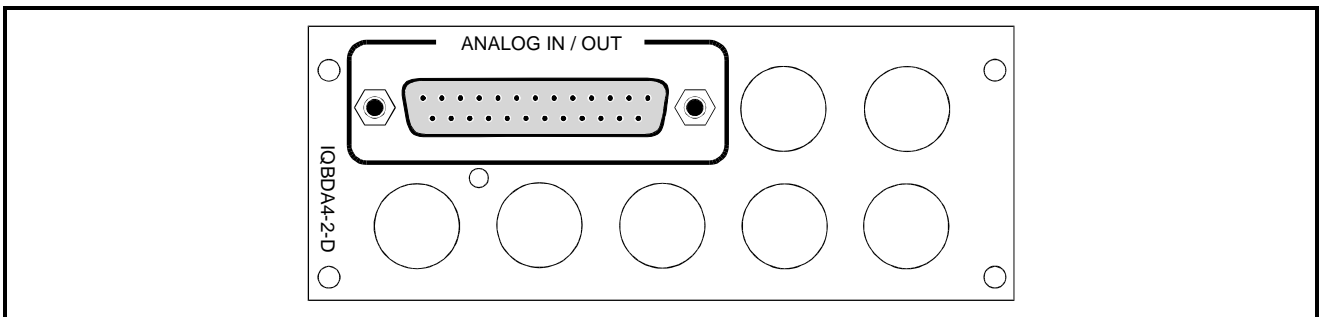
# IQBDA4 Analog Audio Distribution Amplifier

## Module Description

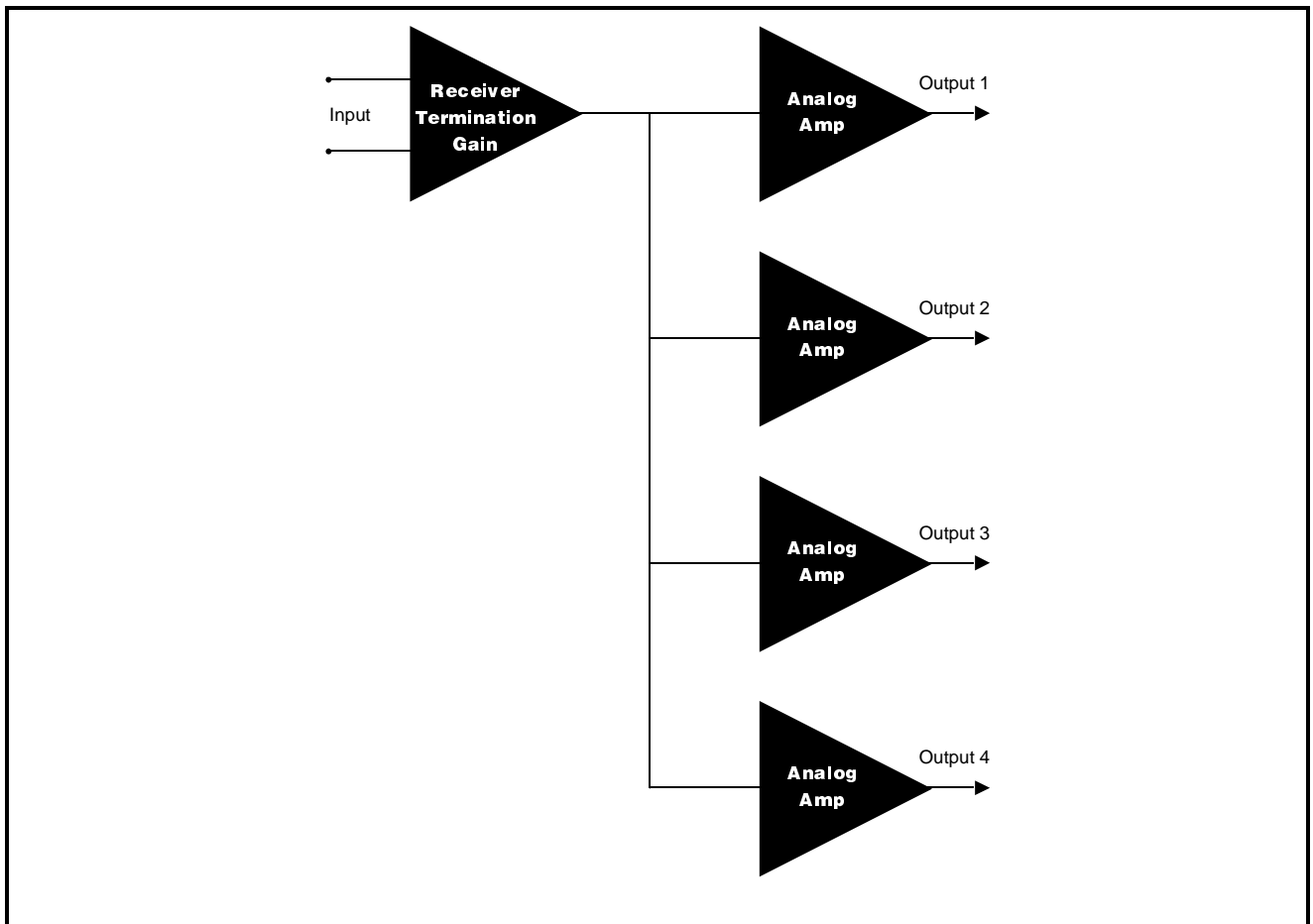
The IQBDA4 Analog Audio Distribution Amplifier has a single channel input with four outputs. The analog input accepts levels up to +24dBu. Through gain is factory set to unity.

The balanced transformerless analog audio connections are via a 25D connector.

## REAR PANEL VIEWS



## BLOCK DIAGRAM



Versions of the module cards available are:

IQBDA4-1-D	Analog Audio Distribution Amplifier	25 way 'D' connector	Single width module
IQBDA4-2-D	Analog Audio Distribution Amplifier	25 way 'D' connector	Double width module

## Features

- Accepts one analogue audio input
- Four outputs
- Input headroom 24dBu
- Very low THD+N
- Unity gain

## TECHNICAL PROFILE

**Features****Signal Inputs**

Analog 1 mono channel

**Signal Outputs**

Analog 4 mono channels

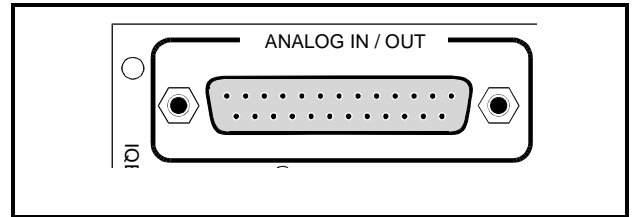
**Specifications**

Analog Input/Output Level	Headroom set to: 24 dBu (17.5 V pk to pk) Gain set for Unity
Analog Input Impedance	10 kOhms
Analog Output Impedance	50 Ohms
Total Harmonic Distortion+Noise	Less than 0.0025% at 700 Hz and -1 dBFs
Noise Floor	Better than -114 dB (20 Hz to 20 kHz)
Channel Amplitude Matching	Better than $\pm 0.05$ dB
Output Level Accuracy	Better than $\pm 0.05$ dB
Flatness	Better than +0.1 dBu to -0.3 dBu (20 Hz to 20 kHz with reference to 1 kHz )

## INPUTS AND OUTPUTS

All analog input and output connections are made via this 25 way female D-type connector.

For connection data consult the tables on page 5.

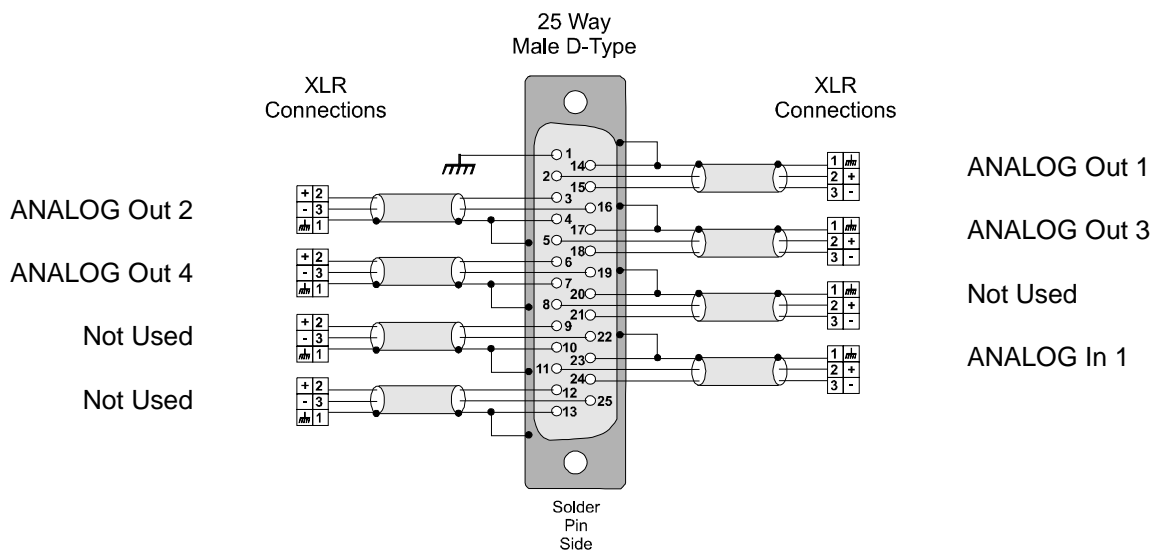
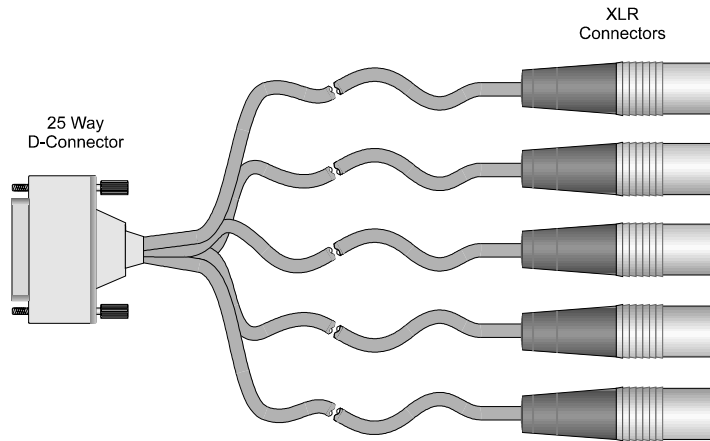


## Connection Details

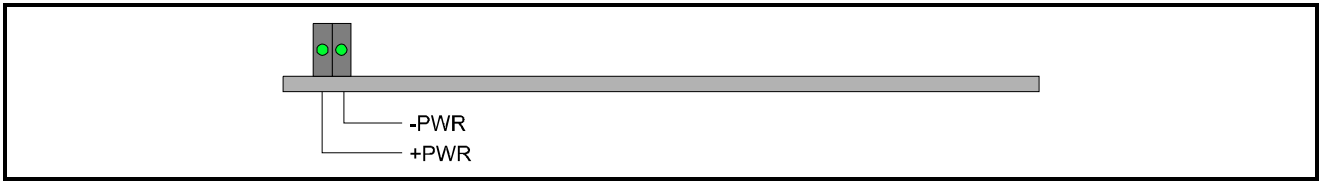
25 Way D Connector Pin Number	Description	Ribbon Cable Strand Number	Standard Pin Assignment
1		1	CHASSIS
14	ANALOG OUT 1 Gnd	2	GND1
2	ANALOG OUT 1 +	3	1+
15	ANALOG OUT 1 -	4	1-
3	ANALOG OUT 2 +	5	2+
16	ANALOG OUT 2 -	6	2-
4	ANALOG OUT 2 Gnd	7	GND2
17	ANALOG OUT 3 Gnd	8	GND3
5	ANALOG OUT 3 +	9	3+
18	ANALOG OUT 3 -	10	3-
6	ANALOG OUT 4 +	11	4+
19	ANALOG OUT 4 -	12	4-
7	ANALOG OUT 4 Gnd	13	GND4 (CH)
20		14	GND5
8		15	5+
21		16	5-
9		17	6+
22		18	6-
10		19	GND6
23	ANALOG IN 1 Gnd	20	GND7
11	ANALOG IN 1+	21	7+
24	ANALOG IN 1-	22	7-
12		23	8+
25		24	8-
13		25	GND8

*Note: When assembling cables connect pin 13 of the D-Type to pin 7 of the D-Type to ensure the signal ground and chassis ground are connected.*

Example of Connection Details to XLR Connectors



CARD EDGE CONTROLS



LED INDICATORS

**Power**

These two indicators are illuminated when the positive and negative supplies are present.

