

MODEL 3208DA/-L/-8**8-CHANNEL DIGITAL TO ANALOG AUDIO CARD**

The Model 3208DA 8-Channel Digital to Analog Audio Card is a component of the IED 3200 Series. Its purpose is to provide signal processing and eight channels of low noise, low distortion audio output. It is designed to be mounted in the 3200MF Mainframe, through which its power and signal connections are made.

The Model 3208DA has three output options:

- Standard line level output (3208DA)
- Line driver output (3208DA-L)
- 8-Watt amplifier output (3208DA-8)

Note: The power supplies allow for up to 32 channels of 8 W power amplifiers for speech or low level music only.

The standard 3208DA card provides eight balanced outputs which will drive up to 3000 feet of shielded twisted pair audio cable such as Belden 8451 or equivalent. The 3208DA-L, which utilizes IED's patented 200L Active Output Module, provides eight balanced, floating outputs which will drive up to 20,000 feet of shielded twisted pair audio cable such as Belden 8451, or equivalent. The 3208DA-8, which utilizes the IED 208S Power Amplifier Module, provides eight audio outputs with up to 8 W each into an 8 load, unbalanced.

The 3208DA card is a 24-bit D/A converter which processes the serial data stream driven by the data rate clock and is capable of processing data of any rate from 32 kHz to 50 kHz.

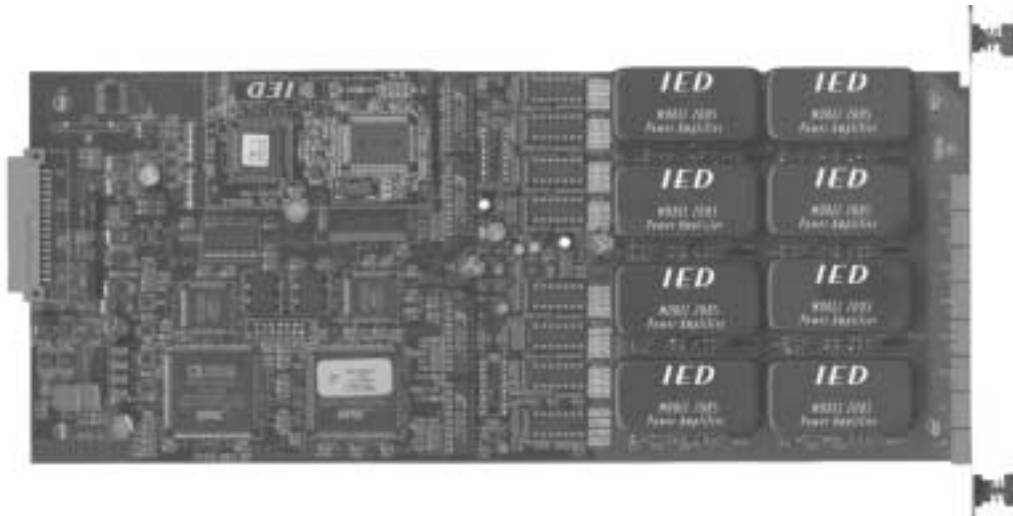


Figure 1 - 3208DA-8
Digital to Analog Audio Card with 8 Watt Output Option

SPECIFICATIONS

ELECTRICAL, ANALOG $V_{OUT} = +13.9$ dBu, $V_S = \pm 15$ V, +5V.

1. Frequency Response (system)	+0, -0.5 dB
20 Hz - 20 kHz	
2. Total Harmonic Distortion, THD01%
20 Hz - 20 kHz, 10 Hz - 80 kHz filters	
3. Output Impedance	0.5
200L or 208S output	
4. Maximum Output Level	
3208DA	+44 dBu
3208DA-L	+24 dBu
3208DA-8	8 Vrms
$R_L = 8$	
5. Power Supply	
Supply Voltage Range	
15 V supply	13.5 V - 16.5 V
+5 V supply	5.22 V - 5.25 V
+3.3 V supply	2.835 V - 3.135 V
Supply Current	
V = +3.3 V	150 mA
V = +5 V	800 mA
V = +15 V	
3208DA, 3208DA-L	300 mA
3208DA-8	1.0 A
Based on speech	
V = -15 V	
3208DA, 3208DA-L	160 mA
3208DA-8	800 mA
Based on speech	

ELECTRICAL, DIGITAL $V_{OUT} = +13.9$ dBu, $V_S = \pm 15$ V, +5V.

1. Sampling Rate	32 kHz - 50 kHz
24-bit D/A	

CONNECTORS

1. 3-pin connector, male, on card, 8 each	Phoenix 1803280
2. Mating 3-pin female connector for 1. Above	Phoenix 1803581

MECHANICAL

1. Size, overall	
Height	(17 cm) 6.71"
Width	(3.25 cm) 1.28"
Depth	(33.5 cm) 13.2"
2. Weight (3208DA-8).	(919 gm) 2.03 lb

ENVIRONMENTAL

1. Operating Temperature Range	(+32 °F - +104 °F) 0 °C - +40 °C
2. Storage Temperature Range	(-40 °F - +158 °F) -40 °C - +70 °C

Innovative Electronic Designs, Inc. • 9701 Taylorsville Road • Louisville, Kentucky 40299 • USA
Phone: (502) 267-7436 • Fax: (502) 267-9070 • Internet: <http://www.iedaudio.com>

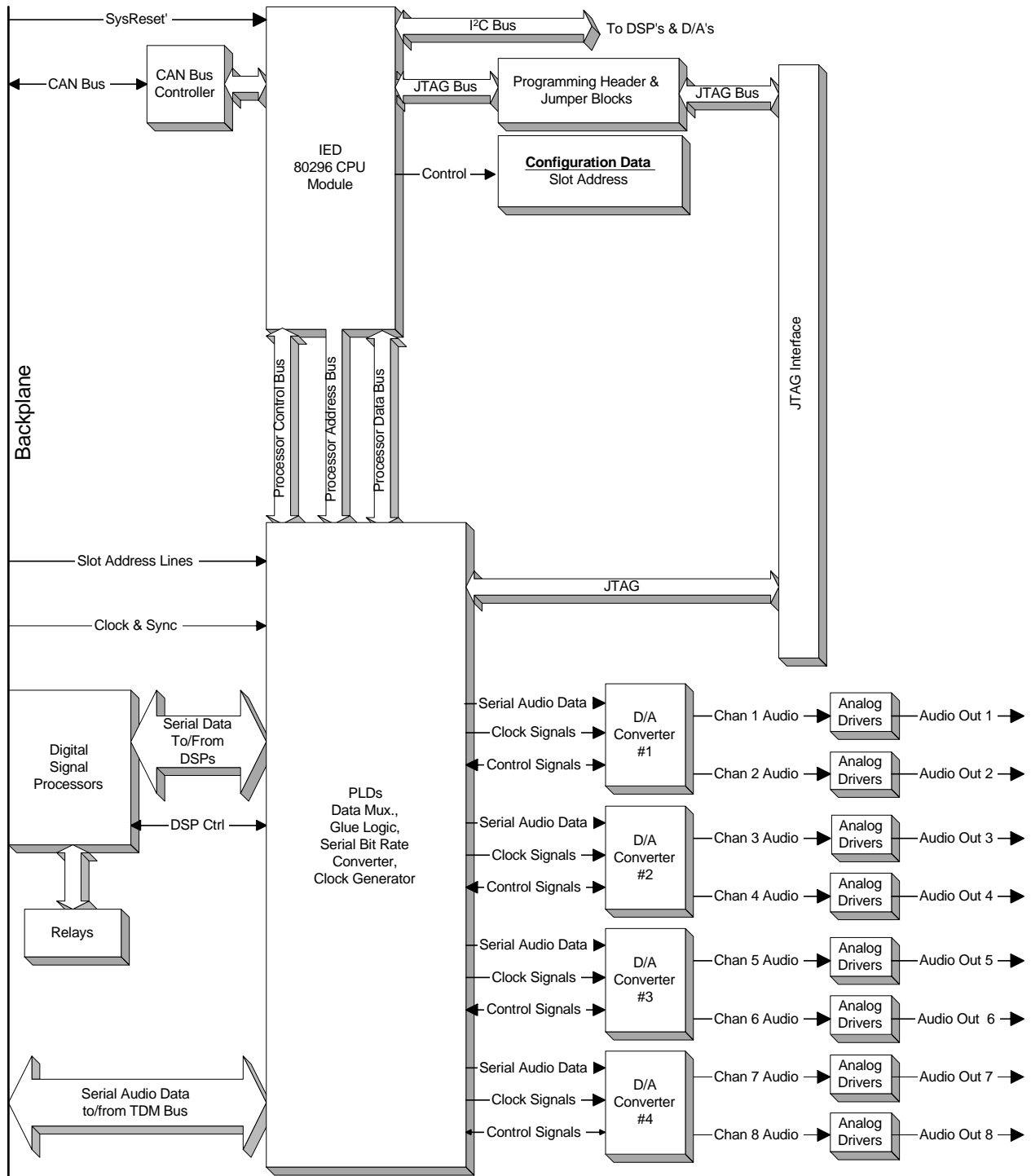


Figure 2 - 3208DA Digital to Analog Audio Card Block Diagram



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