SPECIFICATIONS

CIO-DAS08,GO-AOH
CIO-DAS08,GO-AO
Analog Input & Digital I/O

MEASUREMENT COMPUTING™

Revision 1, >mdi, 200.

Power consumption

+5V	200 mA typical, 240A max
+12V	
CIO-DAS08/JR	17 mA typical, 22mA max
CIO-DAS08/JR-AO	27 mA typical, 35mA max
-12V	
CIO-DAS08/JR	28 mA typical, 36mA max
CIO-DAS08/JR-AO	28 mA typical, 36mA max

Analog input section

A/D converter type	AD574
Resolution	12 bits
Number of channels	8 single-ended
Input ranges	±5V
A/D pacing	Software-polled
Data transfer	Software-polled
A/D conversion time	25 µs
Throughput	System-dependant
Gain drift (A/D specs)	±50 ppm/°C
Zero drift (A/D specs)	±10 ppm/°C
Absolute maximum input voltage	±30V continuous

Analog Output (CIO-DAS08/JR-AO Only)

D/A converter type	AD7237
Resolution	12 bits
Number of channels	2
Output Ranges	±5V
D/A pacing	Software-paced
Data transfer	Programmed I/O
Offset error	±2 LSB typical, ±5LSB max
Gain error	±2 LSB typical, ±5LSB max
Differential nonlinearity	±0.9 LSB max
Relative accuracy	±1 LSB max
Monotonicity	Guaranteed monotonic to 12 bits over temperature
D/A Gain drift	±25 ppm/°C max
Settling time (10V step to ±½LSB)	10 µs max
Current Drive	±5 mA
Output coupling	DC
Output impedance	0.5 Ohms max
Miscellaneous	Update DACs simultaneously

Digital Input / Output

Digital Type	
Output	74LS273
Input	74LS244
Configuration	8 fixed input, 8 fixed output
Number of channels	8
Output High	2.7 volts min @ –0.4 mA
Output Low	0.5 volts max @ 8 mA
Input High	2.0 volts min, 7 volts absolute maximum
Input Low	0.8 volts max, –0.5 volts absolute minimum

Environmental

Operating temperature range	0 to 50°C
Storage temperature range	–20 to 70°C
Humidity	0 to 90% non-condensing

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