SPECIFICATIONS

CIO-DAS08/JR/16
&
CIO-DAS08/JR/16-AO

Analog & Digital I/O

MEASUREMENT
COMPUTING™

Revision 4, October, 2001

POWER CONSUMPTION - NO DACs

+5V Supply	310 mA typical / 510 mA max.
+12V Supply	25 mA typical / 36 mA max.
–12V Supply	16 mA typical / 25 mA max.

POWER CONSUMPTION - WITH DACs

+5V Supply	315 mA typical / 520 mA max.
+12V Supply	52 mA typical / 78 mA max.
–12V Supply	43 mA typical / 66 mA max.

NOTE: Additional power will be drawn by user's connections to the power pins accessible on board connectors.

ANALOG INPUTS - Both Versions

Type	TC-850 Integrating Converter
Resolution	16 bits, 65536 divisions of full scale
Number of Channels	8, single-ended
Range	±5V
A/D Conversion Time	30 ms
Throughput	30 Hz
Differential Linearity Error	± 0.5 LSB Max
Integral Linearity Error	± 1 LSB Max
No missing codes	Guaranteed to 16 bits
Voltage Reference Warm Up	20 Minutes Minimum 30 Minutes Typical
Input Leakage Current	100 nA max @ 25 deg. C.
On Channel Impedance	10 Megohms
Overvoltage	± 30 Volts Continuous

ANALOG OUTPUTS - CIO-DAS08/JR/16-AO Only

Type	AD660
Number of Channels	2
Range	± 5V Bipolar Only
Resolution	16 Bits (1/65536)
Settling time +/-FS	13 µs Max to +/-0.0008% of full scale
Linearity	± 2 LSB
Monotonicity	15 Bits guaranteed over temp range
Offset error	± 7mV
Gain error	± 3mV Max
Output Current	5 mA Min
Miscellaneous	Update DAC channels individually or simultaneously (jumper-selectable) Double-buffered latch output

DIGITAL I/O

Output Type	74LS373
Input Type	74LS244
Output low	0.4V max @ 8 mA
Output high	2.7V min @ –0.4 mA
IP1 - IP3 low	0.8V max, –0.5V absolute min
IP1 - IP3 high	2V min, 7V absolute max

ENVIRONMENTAL

Operating Temperature	0 to 50 deg C
Storage Temperature	–20 to 70 deg C
Humidity	0 to 90% non-condensing
Weight	5 oz

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