



SSSI bus cable for multiple cards synchronization



Termination board DIN-68S/1M

Specifications

Model Number	DAQ-2208
<b>Analog Input</b>	
Resolution	12 bits, no missing codes
Number of channels	96 single-ended or 48 differential (software selectable per channel)
Channel gain queue size	1024
Maximum sampling rate	3 MS/s
Programmable gain	1,2,4,5,8,10,20,40,50,200
Bipolar input ranges	$\pm 10\text{ V}$ , $\pm 5\text{ V}$ , $\pm 2.5\text{ V}$ , $\pm 2\text{ V}$ , $\pm 1.25\text{ V}$ , $\pm 1\text{ V}$ , $\pm 0.5\text{ V}$ , $\pm 0.25\text{ V}$ , $\pm 0.2\text{ V}$ , $\pm 0.05\text{ V}$
Unipolar input ranges	0-10 V, 0-5 V, 0-4 V, 0-2.5 V, 0-1 V, 0-0.5 V, 0-0.4 V, 0-0.1 V
Offset error	$\pm 1\text{ mV}$
Gain error	$\pm 0.03\%$ of FSR
Input Coupling	DC
Overvoltage protection	Power on: Continuous $\pm 30\text{ V}$ , Power off: Continuous $\pm 15\text{ V}$
Input Impedance	1 G $\Omega$ /100 pF
CMRR (gain = 1)	90 dB
Settling time	1 $\mu\text{s}$ to 0.1 % error *
-3dB small signal bandwidth (gain = 1)	2 MHz
Trigger sources	Software, external digital/analog trigger, SSI bus
Trigger modes	Pre-trigger, post-trigger, middle-trigger, delay-trigger, and repeated trigger
FIFO buffer size	1 k samples
Data Transfers	Polling, scatter-gather DMA
<b>Digital I/O</b>	
Number of channels	24-CH 8255 programmable input/output
Compatibility	5 V/TTL
Data transfers	Programmed I/O
<b>Auto Calibration</b>	
On-board reference	+5 V
Temperature drift	$\pm 2\text{ ppm}/^\circ\text{C}$
Stability	$\pm 6\text{ ppm}/1000\text{ Hrs}$
<b>General Specifications</b>	
Dimensions	175 mm x 107 mm (not including connectors)
Connector	68-pin VHDCI female x 2
Operating temperature	0 to 55 $^\circ\text{C}$
Storage temperature	-20 to 80 $^\circ\text{C}$
Humidity	5 to 95 %, noncondensing
Power requirements	+5 V 1.3 A typical

\*Gain = 1, 2, 4, 8

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- 2 PXI/CompactPCI Platforms
- 3 PXI-Based Instruments
- 4 PXI/CompactPCI Modules
- 5 **PCI DAQ Cards**
- 6 PCI DIO Cards
- 7 PC/104-Plus Products
- 8 ISA DAS/DIO Cards
- 9 Wiring Termination Boards
- 10 Motion Control Cards
- 11 Machine Vision Products
- 12 Remote I/O Modules