PXI/DAQ/DAQe-2208

96-CH 12-Bit 3 MS/s Ultra High-Density Analog Input Cards



PXI-2208



DAQ-2208



DAQe-2208

Ordering Information / Quick Selection Guide

Model Name	Analog Input				Analog Output			DIO	Timer/Counter
	No. of channels	Resolution	Sampling rate	Input range	No. of channels	Resolution	Update rate	No. of channels	No. of channels
PXI/DAQ/DAQe-2208	48 DI/96 SE	12 Bit	3 MS/s (Single channel) 1 MS/s (Multi-channel)	±0.05 V to ±10 V	-	-	-	24-Bit 8255 PIO	-

Specifications

Model Name	PXI/DAQ/DAQe-2208
Analog Input	
Resolution	12 Bit, no missing codes
Number of channels	96 single-ended or 48 differential
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	±10 V, ±5 V, ±2.5 V, ±2 V, ±1.25 V, ±1 V, ±0.5 V, ±0.25 V, ±0.2 V, ±0.05 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	±2 mV
Gain error	±0.06% of FSR
Input Coupling	DC
Overvoltage protection	Power on: Continuous ±30 V, Power off: Continuous ±15 V
Input Impedance	1 GΩ/100 pF
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
Digital I/O	
Number of channels	24-CH 8255 programmable input/output
Compatibility	5 V/TTL
Data transfers	Programmed I/O
General Specifications	
Auto Calibration	Yes (+5 V, ±2 ppm/°C)
Dimensions	160 mm x 100 mm (not including connectors) (PXI-2208) 175 mm x 107 mm (not including connectors) (DAQ-2208) 168 mm x 107 mm (not including connectors) (DAQe-2208)
Connector	68-pin VHDCI female x 2
Operating temperature	0°C to 55°C (32°F to 131°F)
Storage temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	5 to 95%, non-condensing
Power requirements	+5 V 0.95 A typical (PXI/DAQ-2208) +3.3 V 0.81 A, +12 V 0.568 A typical (DAQe-2208)

Features

- **Supports a 32-Bit 3.3 V or 5 V PCI bus (DAQ-2208)**
- **x1 lane PCI Express® Interface (DAQe-2208)**
- **PXI Specification Rev. 2.2 compliant (PXI-2208)**
- **96-CH single-ended or 48-CH differential analog inputs**
- **Onboard 1 k-sample A/D FIFO**
- **Bipolar or unipolar analog input ranges**
- **Programmable gains of x1, x2, x4, x5, x8, x10, x20, x40, x50, x200**
- **1024-configuration channel gain queue**
- **Scatter-gather DMA for analog inputs**
- **24-CH TTL digital input/output**
- **Analog and digital triggering**
- **Fully auto calibration**
- **Multiple cards synchronization through SSI (System Synchronization Interface) bus or PXI trigger bus**

Supported Operating System

- Windows 7/8 x64/x86, Linux

Driver and SDK

- LabVIEW, MATLAB, C/C++, Visual Basic, Visual Studio.NET

Software Utility

- AD-Logger

Terminal Boards & Cables

- DIN-68S-01
- ACL-10568-1
- ACL-SSI-2/3/4

*** For more information on mating terminal board and cables, please refer to P3-48/49.**

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