# 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 | ±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)<br>175 mm x 107 mm (not including connectors) (DAQ-2208)<br>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)<br>+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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