### PXI/DAQ/DAQe-2000 Series

**4-CH 14/16-Bit Up to 2 MS/s Simultaneous-Sampling DAQ Cards**

#### Ordering Information / Quick Selection Guide

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Analog Input</th>
<th>Analog Output</th>
<th>DIO</th>
<th>Timer/Counter</th>
</tr>
</thead>
<tbody>
<tr>
<td>PXI/DAQ/DAQe-2010</td>
<td>4-CH DI</td>
<td>16 Bit</td>
<td>12 Bit</td>
<td>1 MS/s</td>
</tr>
<tr>
<td>PXI/DAQ/DAQe-2005</td>
<td>4-CH DI</td>
<td>16 Bit</td>
<td>12 Bit</td>
<td>1 MS/s</td>
</tr>
<tr>
<td>PXI/DAQ/DAQe-2006</td>
<td>4-CH DI</td>
<td>16 Bit</td>
<td>12 Bit</td>
<td>1 MS/s</td>
</tr>
</tbody>
</table>

#### Specifications

- **Model Name**
- **Analog Output**: 16 Bit, no missing codes
- **DIO**: 16 Bit, no missing codes
- **Timer/Counter**: 4 simultaneous-sampling channels with differential input

<table>
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<tr>
<th>Resolution</th>
<th>Maximum sampling rate</th>
<th>Programmable gain</th>
<th>Bipolar input ranges</th>
<th>Unipolar input ranges</th>
<th>Offset error</th>
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<th>Input Impedance</th>
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<th>FIFO buffer size</th>
<th>Data transfers</th>
<th>Analog Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>PXI/DAQ/DAQe-2010</td>
<td>14 Bit</td>
<td>2 MS/s</td>
<td>±1.25 V</td>
<td>±0.2 V, ±0.5 V, ±1 V</td>
<td>±3 mV</td>
<td>±0.1% of FSR</td>
<td>1 GΩ/100 pF</td>
<td>Power on: Continuous ±15 V</td>
<td>Software, external digital/analog trigger, SSI bus</td>
<td>Pre-trigger, post-trigger, middle-trigger, delay-trigger, and repeated trigger</td>
<td>2 k samples</td>
<td>Poling, scatter-gather DMA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PXI/DAQ/DAQe-2005</td>
<td>16 Bit</td>
<td>500 kS/s</td>
<td>±1.25 V</td>
<td>±0.2 V, ±0.5 V, ±1 V</td>
<td>±2 mV</td>
<td>±0.04% of FSR</td>
<td>1 GΩ/100 pF</td>
<td>Continuous ±15 V</td>
<td>Software, external digital/analog trigger, SSI bus</td>
<td>Pre-trigger, post-trigger, middle-trigger, delay-trigger, and repeated trigger</td>
<td>12 Bit</td>
<td>2-CH, 16-Bit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PXI/DAQ/DAQe-2006</td>
<td>16 Bit</td>
<td>250 kS/s</td>
<td>±1.25 V</td>
<td>±0.2 V, ±0.5 V, ±1 V</td>
<td>±1 mV</td>
<td>±0.03% of FSR</td>
<td>1 GΩ/100 pF</td>
<td>Continuous ±15 V</td>
<td>Software, external digital/analog trigger, SSI bus</td>
<td>Pre-trigger, post-trigger, middle-trigger, delay-trigger, and repeated trigger</td>
<td>8 k samples</td>
<td>512 samples</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Features

- Supports a 32-Bit 3.3 V or 5 V PCI bus (DAQ-2000 series)
- x1 lane PCI Express® Interface (DAQe-2000 series)
- PXI specification Rev. 2.2 compliant (PXI-2000 series)
- 4-CH differential analog inputs
- Bipolar or unipolar analog input ranges
- Programmable gains of x1, x2, x4, x8
- Scatter-gather DMA for both analog inputs and outputs
- 2-CH 12-Bit multiplying analog outputs with waveform generation
- 24-CH TTL digital input/output
- 2-CH 16-Bit general-purpose timer/counter
- Analog and digital triggering
- Fully auto calibration
- Multiple cards synchronization through SSI (System Synchronization Interface) bus or PXI trigger bus

#### Terminal Boards & Cables

- DIN-685-01
- ACL-10568-1
- ACL-SSI-2/3/4

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