E Series Multifunction DAQ – 500 kS/s, 12-Bit, 16 or 64 Analog Inputs

NI 606xE

- 500 kS/s, 12-bit resolution, up to 64 single-ended analog inputs
- Two 12-bit analog outputs
- 8 digital I/O lines (5 V/TTL); two 24-bit counter/timers
- Analog and digital triggering
- Available for PCMCIA and ISA
- NI-DAQ driver software simplifies configuration and measurements

Models
NI 6060E (MIO-16E-2)
NI 6061E (MIO-64E-3)
NI 6062E

NI Application Software
- LabVIEW
- Measurement Studio
- VI Logger

Operating System Compatibility
- Windows 2000/NT/Me/9x*

Accessories
See page 236

Calibration Certificate Included
See page 24

*Visit ni.com/info and enter winxp for the latest operating system information.

Overview

The NI 6060E, NI 6061E, and NI 6062E DAQ devices use E Series technology to deliver high performance and reliable data acquisition capabilities for a wide range of applications. You get up to 500 kS/s, 12-bit performance and either 16 or 64 single-ended analog inputs. Depending on your hard drive, these devices can stream data to disk at rates up to 500 kS/s.

These E Series DAQ devices feature analog and digital triggering capability, as well as two 12-bit analog outputs, two 24-bit 20 MHz counter/timers, and eight digital Input/Output (I/O) lines.

See the E Series Multifunction DAQ Overview on page 230 for a more detailed hardware overview.

Also consider the NI 6070E devices. See page 236.

Table 1. NI 606xE Family Channel, Speed, and Resolution Specifications (refer to page 266 for detailed specifications)

<table>
<thead>
<tr>
<th>Family</th>
<th>Bus</th>
<th>Analog Inputs</th>
<th>Resolution</th>
<th>Sampling Rate/S/s</th>
<th>Input Range</th>
<th>Analog Outputs</th>
<th>Resolution</th>
<th>Output Rate</th>
<th>Output Range</th>
<th>Digital I/O</th>
<th>Counter/ Timers</th>
<th>Triggers</th>
</tr>
</thead>
<tbody>
<tr>
<td>NI 6060E</td>
<td>ISA</td>
<td>16 SE/8 DI</td>
<td>12 bits</td>
<td>500 k</td>
<td>±0.05 to ±10 V</td>
<td>2</td>
<td>12 bits</td>
<td>1 MS/s</td>
<td>up to ±10 V</td>
<td>8</td>
<td>2, 24-bit</td>
<td>Analog and Digital</td>
</tr>
<tr>
<td>NI 6061E</td>
<td>ISA</td>
<td>84 SE/32 DI</td>
<td>12 bits</td>
<td>500 k*/333 k</td>
<td>±0.05 to ±10 V</td>
<td>2</td>
<td>12 bits</td>
<td>1 MS/s</td>
<td>up to ±10 V</td>
<td>8</td>
<td>2, 24-bit</td>
<td>Analog and Digital</td>
</tr>
<tr>
<td>NI 6062E</td>
<td>PCMCIA</td>
<td>16 SE/8 DI</td>
<td>12 bits</td>
<td>500 k</td>
<td>±0.05 to ±10 V</td>
<td>2</td>
<td>12 bits</td>
<td>850 kS/s*</td>
<td>up to ±10 V</td>
<td>8</td>
<td>2, 24-bit</td>
<td>Analog and Digital</td>
</tr>
</tbody>
</table>

*Single-channel rates

INFO CODES
For more information or to order products online, visit ni.com/info and enter: atmio16e2 atmio64e3 daqcard6062e

BUY ONLINE!
E Series Multifunction DAQ Devices

Measurements

E Series DAQ Devices

Calibration

See page 266 for more detailed specifications.

Figure 2. NI 6062E Hardware Block Diagram

See page 233 in the E Series Multifunction DAQ Overview for I/O connector diagrams.

See page 256 for E Series accessory and cable information.

Table 2. NI 606xE Analog Input Accuracy Specifications

Table 3. NI 606xE Analog Output Accuracy Specifications

Ordering Information

Recommended Configurations

Includes NI-DAQ driver software.

For information on extended warranty and value-added services, see page 22.

NI 6062E DAQCard-6062E

NI 6061E AT-MIO-64E-3

NI 6060E AT-MIO-16E-2

NI 6060E

NI 6061E

NI 6062E

Ordering Information

Recommended Configurations

See page 22 for information on extended warranty and value-added services.

Family | DAG Device | Accessory | Cable

NI 6062E AT-MIO-16E-2
NI 6061E AT-MIO-64E-3
NI 6060E

Ordering Information

Recommended Configurations

See page 22 for information on extended warranty and value-added services.

Family | DAG Device | Accessory | Cable

NI 6062E AT-MIO-16E-2
NI 6061E AT-MIO-64E-3
NI 6060E

Ordering Information

Recommended Configurations

See page 22 for information on extended warranty and value-added services.

Family | DAG Device | Accessory | Cable

NI 6062E AT-MIO-16E-2
NI 6061E AT-MIO-64E-3
NI 6060E