EASY ACCESS TO THE BEST DATA ACQUISITION HARDWARE AVAILABLE

Chameleon is an intuitive, easy to use, yet powerful turnkey data acquisition program developed to take full advantage of data acquisition hardware from National Instruments (NI). Users can have their systems up and running in minutes, acquiring static and dynamic signals from microphone arrays, accelerometers, bridge-based sensors, thermocouples, and other signals, all without any programming.

MEASUREMENTS, SIMPLIFIED

Chameleon’s unique architecture provides incredible power and flexibility with an easy-to-use interface. Other DAQ solutions can be overly complex and inflexible - Chameleon provides the same intuitive interface, whether configuring basic or high channel count systems.

Chameleon also eliminates the cost and risk of developing and maintaining custom data acquisition applications.

CHAMELEON FEATURES

• Simple, intuitive, out-of-the-box setup and operation
• Single or multi-chassis configurations using MXI, USB, or Ethernet with cross chassis time synchronization
• Mixed-sensor configurations using microphones, hydrophones, accelerometers, thermocouples, bridge-based sensors, RTDs, and current sensors
• Mixed sample rates across modules
• Analog output with predefined or arbitrary waveforms
• Data visualization, multiple traces and graphs, with live or pre-recorded data
• Alarms with audible, visual, or digital indicators
• Calculated virtual channels with equation builder
• Data storage in open TDMS file format, with export to popular third party formats
BENEFITS OF NI TECHNOLOGY

Chameleon offers compatibility with a wide variety of NI controllers and data acquisition modules, allowing the user to configure the system to meet specific application requirements. The user can choose from:

- Various data acquisition module types to collect data from different sensor sources
- One to eighteen slot chassis to match channel requirements
- Embedded controller or external PC controller
- External connection to DAQ hardware using MXI, USB, or Ethernet
- PXI or NI CompactDAQ form factor
- Multiple controller and DAQ hardware options to match application requirements and budget
- Internal or external RAID hard drive
- Remote monitoring and control via Ethernet or wireless communications

CHAMELEON CONFIGURATION

Chameleon can be configured with a variety of sensor types, and easily handles the channel configuration and data management for the sensors.

CHAMELEON SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Scalability</td>
<td>Unlimited channels</td>
</tr>
<tr>
<td>Signal Types</td>
<td>Voltage, IEPE, strain, bridge-based, thermocouples, RTDs, current, resistance</td>
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<tr>
<td>Hardware Form Factor</td>
<td>NI PXI and PXI Express, NI CompactDAQ</td>
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<tr>
<td>Synchronization</td>
<td>Inter-channel skew as low as 5 ns</td>
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<tr>
<td>Sampling Rates</td>
<td>From less than 1 S/s up to 4MS/s</td>
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<tr>
<td>A/D, D/A Conversion</td>
<td>24-bit with up to 118 dB dynamic range</td>
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<tr>
<td>Coupling</td>
<td>AC or DC</td>
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<tr>
<td>External Timing Source</td>
<td>GPS, IEEE 1588, IRIG-B</td>
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<tr>
<td>System Controller</td>
<td>National Instruments embedded processor or external PC with MXI interface</td>
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FOR MORE INFORMATION
visit www.ChameleonDAQ.com or call 1-860-739-8044.

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rev 062020