Digitizer Studio Datasheet

Digitizer Studio is an application software for the ADQ series of digitizers. Digitizer Studio features

- Graphical User Interface for control
- Waveform plot
- Save and load data
- Save and load configurations
1 DIGITIZER STUDIO INTRODUCTION

1.1 Features

- Diagram view for understanding relation between parameters
- Table view for efficient entry of parameters
- Details view with complete information about parameters
- Waveform plot in multiple windows
- Multiple Cursor
- Time-domain and FFT plot
- Signals analysis

1.2 Applications

- Test and measurement
- Scientific instruments
- Medical imaging
- Particle physics
- ATE

1.3 Advantages

- Digitizer Studio is a fast and easy way to evaluate the performance of the ADQ digitizer.
- Digitizer Studio is an easy to use tool to explore the possibilities of the ADQ digitizers.
- Digitizer Studio can interface to the end application by saving recorded data.
- Digitizer Studio speeds up the development of the application since the development of the application can be separated from control of the digitizer.
2 DIGITIZER MODEL SUPPORT

Digitizer studio supports the following models.

Table 1 ADQ digitizer models

<table>
<thead>
<tr>
<th>Model</th>
<th>Hardware options</th>
<th>Firmware</th>
<th>Limitations</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADQ8</td>
<td>-8C-VG-PXIe</td>
<td>FWDAQ</td>
<td>Daisy chain trigger not supported</td>
</tr>
<tr>
<td>ADQ8</td>
<td>-8C-VG-MTCA</td>
<td>FWDAQ</td>
<td>MTCA MLVDS has limited support</td>
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<tr>
<td>ADQ14DC-USB</td>
<td>All options</td>
<td>FWDAQ</td>
<td></td>
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<tr>
<td>ADQ14DC-PXIe</td>
<td>All options</td>
<td>FWDAQ</td>
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<tr>
<td>ADQ14DC-PCie</td>
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<td>FWDAQ</td>
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<tr>
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<td>ADQ14AC-USB</td>
<td>All options</td>
<td>FWDAQ</td>
<td></td>
</tr>
<tr>
<td>ADQ14AC-PXIe</td>
<td>All options</td>
<td>FWDAQ</td>
<td>Backplane triggers has limited support</td>
</tr>
<tr>
<td>ADQ14AC-PCie</td>
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<td>FWDAQ</td>
<td></td>
</tr>
<tr>
<td>ADQ7DC-USB</td>
<td>All options</td>
<td>FWDAQ</td>
<td>No support for 10GBE port</td>
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<tr>
<td>ADQ7DC-PXIe</td>
<td>All options</td>
<td>FWDAQ</td>
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<td>All options</td>
<td>FWDAQ</td>
<td>MTCA MLVDS has limited support</td>
</tr>
<tr>
<td>ADQ12DC</td>
<td>All options</td>
<td>FWDAQ</td>
<td>No support for 10GBE port</td>
</tr>
</tbody>
</table>

3 GENERAL LIMITATIONS

The GPIO function is not supported by the GUI since this function is related to building a real-time application.

The only supported acquisition mode is Multi Record.

4 SYSTEM REQUIREMENT

Digitizer Studio operates under Windows 10 and Linux.

Windows 10
Windows 8 / 8.1
Ubuntu 18.04
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