ProDAQ Data Acquisition Function Cards

ProDAQ 3901 Voltage Reference Monitor/Input Function Card

OVERVIEW

The ProDAQ 3901 function card is an I/O card for the voltage reference distribution network on the ProDAQ motherboards. It can be used to monitor the optional ProDAQ 3201 voltage reference module fitted to a ProDAQ motherboard. This, together with an ultra high-precision calibrated voltage meter or digital multimeter (DMM), allows for calibration of the internal voltage reference module.

In cases requiring even higher precision or stability than the ProDAQ 3201 voltage reference module can provide, an external voltage standard can be fed to the voltage reference distribution network within the motherboard.

Features & Benefits

- Monitoring of onboard ProDAQ voltage reference
- Allows for calibration of internal voltage reference module

For more information, visit www.bustec.com.

Learn more about the ProDAQ 3901 on our website by scanning the code below.
SPECIFICATIONS

INPUT/ OUTPUT CHARACTERISTICS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of IOs</td>
<td>2, ± Vref</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>As generated by the internal voltage reference card</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>&lt; ± 10 Volt Peak-to-Peak (only if no voltage reference card is fitted on the ProDAQ motherboard)</td>
</tr>
<tr>
<td>Input/Output Impedance</td>
<td>5 Ω / 200 pF</td>
</tr>
<tr>
<td>Input/Output Coupling</td>
<td>DC</td>
</tr>
</tbody>
</table>

FRONT PANEL I/O

Connector: 50-pin SCSI female

PHYSICAL CHARACTERISTICS

Dimensions: 235 mm x 53 mm
Weight: < 60 g

POWER REQUIREMENTS

Power Consumption: 0 W

ENVIRONMENTAL

Temperature: 0°C to +50°C (operational)
-40°C to +70°C (storage only)
Humidity: 10% - 90% (non-condensing)

SOFTWARE SUPPORT

Driver support for Microsoft Windows, VxWorks, and Linux (Contact Bustec Ltd. for more information)

WARRANTY PERIOD

12 months (extended periods available at additional cost)

Ordering Information

- 3901-AA Voltage reference monitor/input function card
- Related Products:
  - 6100-xx LXI function card carrier
  - 3180-AA Ultra-performance motherboard module
  - 3201-AA Programmable voltage reference card
  - 5010-AA Signal conditioning unit
  - 5421-AA 24-ch terminal card, direct input
  - 8010-AA 0.5m SCSI cable

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