ADLINK
LEADING EDGE COMPUTING

PXI-2022

16-CH 16-Bit 250 KS/s Simultaneous Sampling DAQ Cards



Features

- Supports 3.3 V and 5 V PCI signaling
- PXI specification Rev 2.2 compliant
- 16-CH differential analog inputs
- Bipolar analog input
- Programmable gains of x1, x4
- Scatter gather DMA transfer for AI continuously data acquisition
- 4-CH TTL digital input/output
- 3U EuroCard form factor
- 2-CH 32-Bit general purpose timer/counters
- Digital triggering
- Fully auto calibration
- Multiple cards synchronization through PXI trigger bus
- Onboard 8 K-sample (16 KB) memory for data storage
- Supported Operating System
  - Windows 7/8/10/11 x64/x86, Linux
- Driver and SDK
  - LabVIEW, MATLAB, C/C++, Visual Basic, Visual Studio.NET
- Software Utility
  - AD-Logger

Ordering Information

- **PXI-2022**
  16-CH 16-Bit 250 KS/s Simultaneous Sampling Card

Terminal Boards & Cables

- **DIN-68S-01**
  68-pin SCSI-II Termination board with DIN-Rail Mounting (Cables are not included.)
- **ACL-10568-1**
  SCSI 68P(M) to VHDCI 68P cable, 1M

Accessories

- **SMB-SMB-1M**
  RF Cable, SMB(F) to SMB(F), 1M
- **SMB-BNC-1M**
  RF Cable, BNC(M) to SMB(F), 1M

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Specifications

Model Name	PXI-2022
Analog Input	
Resolution	16 Bit
Number of Channels	16 differential channels
Input Impedance	1 GΩ/pF
Input Coupling	DC
Bipolar Input Signal Range	± 10 V, ± 2.5 V
Programmable gain	1, 4
Overvoltage Protection	Power on: ±30 V continuous Power off: ±30 V continuous
Max Sampling Rate	250 KS/s
Data FIFO Size	8 K-sample (16 KB)
DNL (gain =1)	±0.8 LSB
INL (gain =1)	±1.5 LSB (typical), ±3.0 LSB (MAX)
Offset Error (gain =1)	0.6 mV (typical)
Gain Error (gain =1)	0.05% of input
Data Transfer	16 differential channels
Digital I/O	
Number of Channel	4 input/output
Compatibility	TTL / CMOS
Input Logic Levels	Input low voltage: 0.8 V (max) Input high voltage: 2.0 V (min)
Output Logic Levels	Output low voltage: 0.4 V (max) Output high voltage: 2.8 V (min)
Output Driving Capacity	±24 mA
Power-on State	Input, pull-low with 10 KΩ resistor
Data Transfer	Polling mode
General Specifications	
Auto Calibration	Yes (+5 V, ±3 ppm/˚C)
Dimensions	Single 3U PXI module, 100 mm x 160 mm (not including connector)
Connector	ACL-10568-1, 68-pin VHDCI-type female
Operating Environment	Ambient temperature: 0˚C to 55˚C (32˚F to 131˚F) Relative humidity: 10% to 90% non-condensing
Storage Environment	Ambient temperature: -20˚C to 80˚C (-4˚F to 176˚F) Relative humidity: 5% to 95% non-condensing

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