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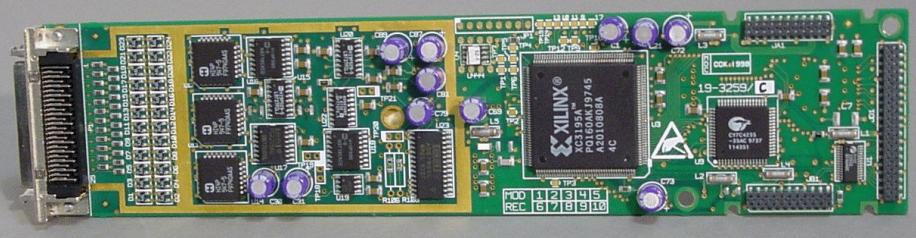
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Find the *Bustec 3150-AA* at our website: *Click HERE*

ProDAQ

ADVANCED VXI DATA ACQUISITION SYSTEMS

3410
INPUT PROTECTED ADC FUNCTION CARD



- 24 Fully Differential Channels
- 16-bit Resolution
- 100 kHz Aggregate Conversion Rate
- 70V Input Protection (Higher Protection optional)
- Programmable Filtering
- Programmable Gain
- Accuracy better than 0.03%
- Less then 1 μV RMS Noise
- 2 kWord FIFO, 16 kWord optional
- Up to 192 Differential ADC Channels per VXIbus Slot

POWER

The ProDAQ 3410 Input-Protected Analog-to-Digital Converter Function Card is one of the ProDAQ high density cards, which can be fitted into the ProDAQ Motherboards. ProDAQ modules are the most versatile VXIbus modules in the market. They provide the user with the highest channel density and functionality available today.

The ProDAQ 3410 ADC Function Card contains a 100 kHz Analog-to-Digital Converter with 24 fully differential inputs, each having a $\pm$10V max. range. This results in a remarkable number of 192 fully differential input channels, if eight ADC function cards are fitted to one ProDAQ Motherboard.

The gain is programmable from 1 to 800, providing the user with voltage ranges from $\pm$10V to $\pm$12.5mV. Three different filter bandwidth and bypass can be selected by software.

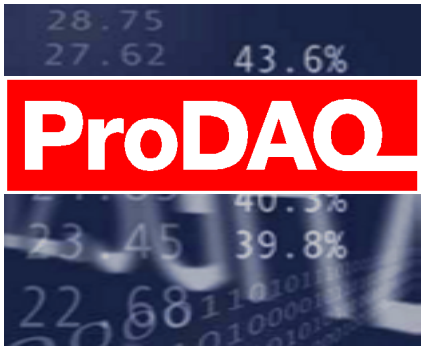
The voltage from the ProDAQ 3201 Programmable Voltage Reference Card can be switched directly to the programmable gain amplifier for calibration ”on-the-fly” or self-test purposes. The achievable accuracy is better than 0.03%, when the voltage reference is used. The RMS noise is less than 1V at a gain of 800. Inputs are protected up to 70V (pk-to-pk), and a diode clamp network ensures no latch-up conditions.

The ProDAQ 3410 ADC Function Card is supplied with VXI*plug&play* drivers, that can be used with all popular software packages. The driver automatically detects and initializes all the function cards installed in one of the ProDAQ motherboard modules, removing any possibility of configuration errors.

The ProDAQ modules allow the user to safely and simply expand their existing hardware and software systems.

bustec

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Number of Input Channels	24
Input Type	Differential
Input Voltage Range	max. ±10V min. 12.5 mV
Gain Selection	1, 2, 4, 8, 10, 20, 40, 80, 100, 200, 400, 800
Sensitivity	0.305mV / bit (at gain 1) 0.381μV / bit (at gain 800)
Filter Selection	1000Hz, 100Hz, 10Hz 2-pole Butterworth and Bypass
Filter Bandwidth	6kHz @ 20V_{pp} 10kHz @ 16V_{pp}
Dynamic Range	92dB
Integral Linearity Error	Typ. ±0.01% Max. ±0.02%
Diff. Linearity Error	Max. +1.5 LSB Min. -1 LSB
Total Full Scale Error	< 0.2% uncalibrated < 0.03% cal. with V_{ref} Note: @ 25° ±1° C
Sampling Rate	100kHz/N (N = # of Channels)
Settling Time	51 μsec to 0.01% (gain 1, filter bypass)
Input Impedance	> 10MΩ / 25pF
Input Protection	±35V
Input Coupling	DC
Input Offset Voltage	max. ±5mV typ. ±1mV (gain 1) ±50μV (gain 800)
CMRR	110dB typ. @ 1kHz 80db min. @ 1kHz

Thermal Drift	±1 LSB / 10° C
Noise	< 1μV RMS (gain 800, 10Hz Filter)
Trigger Input	Motherboard or Front-Panel Connector
Trigger Output	Motherboard or Front-Panel Connector
FIFO	2 kSamples or 16 kSamples
Operating Temperature	0° C to 50° C
Storage Temperature	-40° C to 70° C
Input Connector	50-pin SCSI Female
Dimensions	235 x 53mm (2.1 x 9.1 inch)
Weight	< 100g
Current Consumption	Voltage (V) Current (mA) +15 20 -15 10 +12 40 +5 190 Note: ±15V derived from VXIbus ±24V
Power Consumption	< 1.9 Watts
Warm-up Time	< 30 Min.
Software Support	VXI*plug&play* driver for the WIN95 and WINNT frameworks
Configuration	Cards can be factory installed or field installed by user
Warranty Period	12 month standard (Extended periods available at additional cost)

Ordering Information

3410-AA	24 Ch. Input-Protected ADC with 2 kWord FIFO
3410-AB	24 Ch. Input-Protected ADC with 16 kWord FIFO

Related Products:

3120-AA	Standard Motherboard
3150-AA	High-Performance Motherboard
3201-AA	Voltage Reference Card
5010-AA	Signal Conditioning Unit
5421-AA	Terminal Card, Direct Input
5422-AA	Current Input Card
5423-AA	Attenuator Card 10:1
5424-AA	Filter Card
8010-AA	0.5 Meter SCSI Cable

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