Connect Tech Inc.

Xtreme I/O ADC-DAC

Connect Tech's Xtreme I/O ADC-DAC is an analog and digital peripheral board for the PCI-104 small form factor embedded market place.
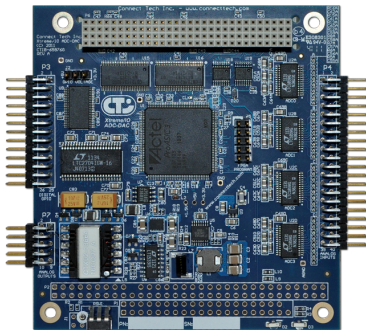This product is ideal for data acquisition, measurement and control applications.

Product Name: Xtreme I/O ADC-DAC
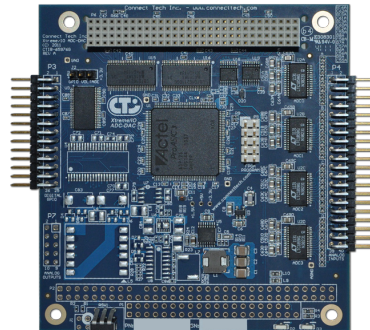**Part Numbers:**
Analog Input & Output Model: DAG003
Analog Input Model DAG004/DAG005
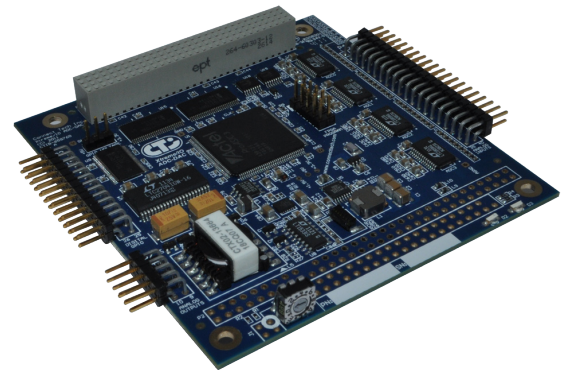

Analog Input & Output Model

32 SE/16 Dif Channels of 16 bit analog input
4 Channels 16 bit analog output, 16 bit GPIO

Analog Input Model

32 SE/16 Dif Channels of 16/12 bit analog input,
16 bit GPIO

FEATURES

✓ 32 single ended / 16 differential analog inputs with 16-bit resolution, 100ksps sampling rate and a wide input voltage range up to ±10V

✓ 4 analog output channels with 16-bit resolution and a wide output voltage range up to ±10V

✓ 16-bit bi-directional digital I/O with selectable voltage ranges

✓ Built-in temperature auto-calibration

✓ PCI-104 and PC/104-Plus options

Specifications	
Form Factor	PCI-104 Fully PCI 2.0 bus compliant Jumpers not required for configuration or board detection
Analog Inputs	
Channels	32 Single Ended / 16 Differential
Resolution	• DAG003: 16-bit • DAG004: 16-bit • DAG005: 12-bit (low cost option)
Sampling Rate	100,000 samples per second
Calibration	Built in temperature Auto calibration
Protection	±25V
Input Ranges	**Software-Programmable Input Ranges:** 0-5V, 0-10V, ±5V, ±10V
Temperature Range	1LSB INL and DNL over full -40℃ to 85℃ (-40℉ to 185℉)
Signal-to-Noise Ratio	87dB
Analog Outputs	DAG003 only
Channels	4
Resolution	16-bit
Output Ranges	**Six Programmable Output Ranges:** • Unipolar: 0V to 5V, 0V to 10V • Bipolar: ±5V, ±10V, ±2.5V, −2.5V to 7.5V
Temperature Range	1LSB INL and DNL over full -40℃ to 85℃ (-40℉ to 185℉)
Outputs Drive	±5mA
Digital I/O	16-bit bidirectional I/O
Input/Output Ranges	Hardware selectable +3.3V or +5V(TTL/CMOS)
High Current	24mA
Dimensions	Fully PCI-104 compliant: 3.775" x 3.550"
Temperature	Operating Temperature: -40℃ to 85℃ (-40℉ to 185℉)
Operating Systems	Windows, Linux, QNX
Warranty and Support	Lifetime warranty and free technical support

Connect Tech Inc.
42 Arrow Road, Guelph ON Canada
Tel: 519.836.1291 **Fax:** 519.836.4878
Toll: 800.426.8979 (North America)
Email: sales@connecttech.com
www.connecttech.com

RoHS