



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.

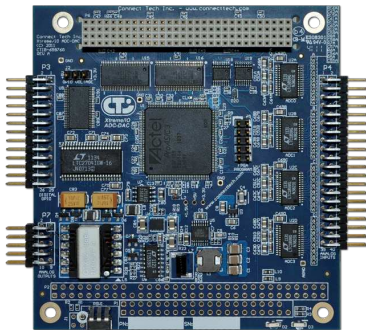
Product Name: Xtreme I/O ADC-DAC

Part Numbers:

Analog Input & Output Model: DAG003

Analog Input Model: DAG004/DAG005

Analog Input & Output Model

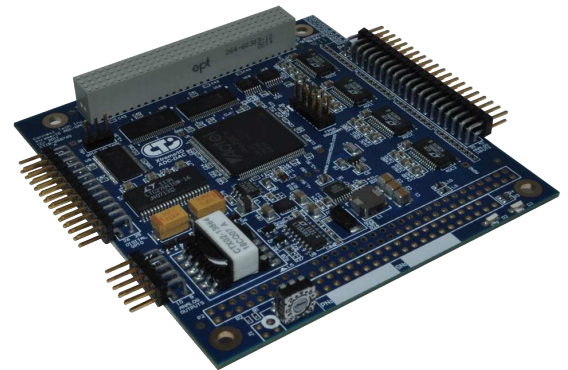


32 SE/16 Dif Channels of 16 bit analog input
4 Channels 16 bit analog output, 16 bit GPIO

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 $\pm 10V$
- ✓ 4 analog output channels with 16-bit resolution and a wide output voltage range up to $\pm 10V$
- ✓ 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	<ul style="list-style-type: none"> • 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	$\pm 25V$
Input Ranges	Software-Programmable Input Ranges: 0-5V, 0-10V, $\pm 5V$, $\pm 10V$
Temperature Range	1LSB INL and DNL over full $-40^{\circ}C$ to $85^{\circ}C$ ($-40^{\circ}F$ to $185^{\circ}F$)
Signal-to-Noise Ratio	87dB
Analog Outputs	DAG003 only
Channels	4
Resolution	16-bit
Output Ranges	Six Programmable Output Ranges: <ul style="list-style-type: none"> • Unipolar: 0V to 5V, 0V to 10V • Bipolar: $\pm 5V$, $\pm 10V$, $\pm 2.5V$, $-2.5V$ to $7.5V$
Temperature Range	1LSB INL and DNL over full $-40^{\circ}C$ to $85^{\circ}C$ ($-40^{\circ}F$ to $185^{\circ}F$)
Outputs Drive	$\pm 5mA$
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: $-40^{\circ}C$ to $85^{\circ}C$ ($-40^{\circ}F$ to $185^{\circ}F$)
Operating Systems	Windows, Linux, QNX
Warranty and Support	Lifetime warranty and free technical support

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RoHS

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