

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.

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,

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 • DAG003: 16-bit Resolution • DAG004: 16-bit • DAG005: 12-bit (low cost option) Sampling Rate 100,000 samples per second Built in temperature Auto calibration Calibration ±25V **Protection Input Ranges Software-Programmable Input Ranges:** 0-5V, 0-10V, ±5V, ±10V 1LSB INL and DNL over full -40°C to 85°C (-40°F to 185°F) Temperature Range Signal-to-Noise Ratio 87dB **Analog Outputs** DAG003 only Channels Resolution 16-bit **Six Programmable Output Ranges: 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°C to 85°C (-40°F to 185°F) **Outputs Drive** 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"

Windows, Linux, QNX





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

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Temperature

Operating Systems

Warranty and Support

Operating Temperature: -40°C to 85°C (-40°F to 185°F)

Lifetime warranty and free technical support



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