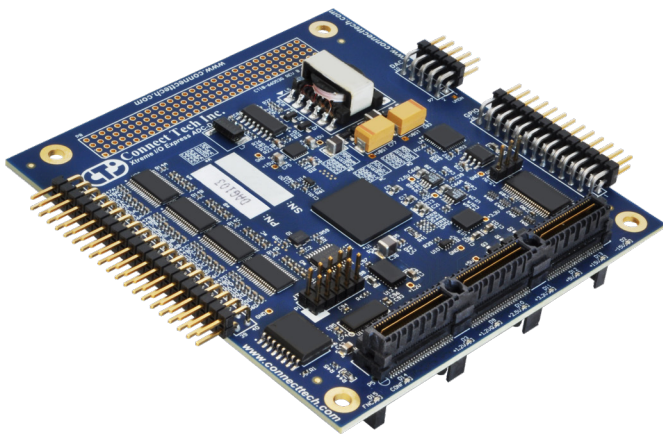**PART NUMBER:** DAG103, DAG104, DAG106

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

The Xtreme I/O Express ADC-DAC supports harsh environments with demanding conditions with an extended temperature range of -40°C to +85°C.

FEATURES

✓ 32 single ended analog inputs with 16-bit resolution, 500ksps 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 ±10.24V

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

✓ ADC static and FIFO waveform capturing modes

✓ DAC static, waveform and PWM output configuration modes

SPECIFICATIONS

Form Factor	PCIe/104	**Dimensions**	Fully PCIe/104 compliant: 3.775" x 3.550"
Temperature	-40°C to +85°C (-40°F to +185°F)	**Operating Systems**	Windows, Linux

ANALOG INPUTS		ANALOG OUTPUTS	
Channels	32 Single Ended, split into 4 groups of 8	**Channels**	4
Resolution	16-bit	**Resolution**	16-bit
Sampling Rate	500 Ksps (per channel) 62.5 Ksps (per group)	**Setting Time**	6 μs
Ranges	Bipolar: ±10.24V, ±5.12V and ±2.56V Unipolar: 0 - 10.24V and 0 - 5.12V	**Ranges**	Unipolar: 0V to 15V Bipolar: ±10V
Protection	±20V	**Accuracy**	1LSB INL and DNL
Impedance	1 MΩ	**Drive**	±3mA
Sample & Hold	N/A	DIGITAL I/O	
Accuracy	DNL: ±0.5 LSB, INL; ±0.75	**Input/Output Ranges**	Hardware selectable +3.3V or +5V(TTL/CMOS)
Signal-to-Noise Ratio	92 dB; TDH: -102 dB	**High Current**	24mA

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