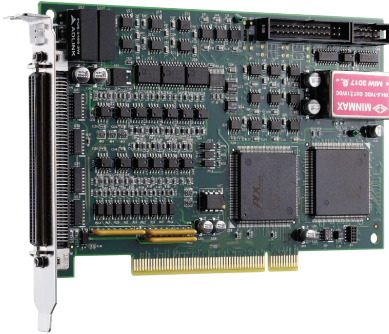


PCI-8136

6-CH Quadrature Encoder and Multi-Function I/O Card



Features

- 32-bit PCI bus, plug & play
- 6-CH 32-bit industrial counter for 3 kinds of differential pulse trains:
 - A/B phase
 - CW/CCW
 - Pulse/Direction
- 6-CH differential pulse generators up to 500 kHz
- 6-CH 32-bit position compare with interrupt function
- 6-CH 16-bit ± 10 V analog output
- 6-CH 12-bit 133 kHz analog single-ended input
- 19-CH opto-isolated DI, 7-CH open collector DO
- Digital I/Os and counters are 2500 Vdc opto-isolated
- One 24-bit programmable timer with interrupt
- Auto-calibration for analog I/O
- More than 50 thread safe API functions

Software Support

- OS Information
 - Windows® 8/7/XP
 - Linux
- Software Compatibility
 - VB/VC++/BCB/Delphi
 - Various sample programs with source codes

Ordering Information

- **PCI-8136**
6-CH quadrature encoder and multi-function I/O card

Accessories

For more information on terminal boards & cables, please refer to page 6-31.

Terminal Board

- **DIN-100S-01**
Terminal board with one 100-pin SCSI-II connector and DIN-rail mounting

Cabling

- **ACL-102100-I**
100-pin SCSI-II cable
(mating with AMP-787082-9), 1 M

Specifications

General Specifications

■ Connectors	100-pin SCSI-type connector DB25 female connector DB9 male connector
■ Operating Temperature	0°C to +50°C (32°F to 122°F)
■ Storage Temperature	-20°C to +80°C (-4°F to 176°F)
■ Humidity	5% to 85%, non-condensing
■ Power Consumption	Slot power supply (input): to $\pm 5\%$, 900 mA (max.) External power supply (input): +5 Vdc $\pm 5\%$, 500 mA (max.) External power supply (output): +5 Vdc $\pm 5\%$, 500 mA (max.)
■ Dimension	164 x 98.4 mm (L x H) (6.39" x 3.83")

Pulse Input (Industrial Counter)

■ Number of Input Channel	6, differential type
■ Pulse Command Type	32-bit counter for AB-phase, CW/CCW, Pulse/Direction
■ Max. Counter Speed	3 MHz, 2500 VDC optical isolation

Pulse Output (Industrial Generator)

■ Number of Output Channel	6, differential type
■ Pulse Command Type	CW/CCW, Puls /Direction, A/B Phase
■ Max. Pulse Rate	500 kHz

Analog Input

■ Number of Channels	6 differential/single-end input channels
■ Input Range	Voltage: ± 10 V
■ Sink Current Capability	0 to 20 mA
■ Resolution	12-bit ADC with 1-bit non-linearity
■ Input Impedance	Approximately 440 K Ω (Voltage), 120 Ω (Current)
■ Sampling Rate	133 kHz multiplexing

Analog Output

■ Number of Channels	6 output channels
■ Output Range	± 10 V; bipolar
■ Sink Current Capability	0 to 20 mA
■ Resolution	16-bit DAC resolution, 14-bit accuracy guarantee
■ Setting Time	2 μ s

Digital Output

■ Number of Channels	7 output channels
■ Output Type	Open collector
■ Sink Current	100 mA/CH (typical); 268 mA/CH (max.); 500 mA/total
■ Isolated Voltage	2500 V _{RMS}
■ Throughput	10 kHz (0.1 ms)

Timer

■ One programmable timer interrupt	
■ Base Clock	33 MHz by PCI bus
■ Timer Range	24-bit

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