

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 $\pm 10 \text{ V}$ 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

Windows® Platform

- Available for Windows Vista (32-bit)/XP/2000
- Recommended programming environments: VB/VC++/BCB/Delphi

Linux Platform

- Redhat 9, kernel 2.4.x
- Fedora Core 3, kernel 2.6.9
- Fedora Core 4, kernel 2.6.1 I
- Fedora Core 5, kernel 2.6.15

Ordering Information

PCI-8136

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

Accessories

See section 14 for more information on Accessories.

Terminal Board

DIN-100S-01

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

Cable

ACL-102100-1

I 00-pin SCSI-II cable (mating with AMP-787082-9), I M

Specifications

eneral Specifications Connectors	100-pin SCSI-type connector
Connectors	DB25 female connector
	DB9 male connector
Operating Temperature	0°C to +50°C
Operating Temperature	-20°C to +80°C
Storage Temperature	
Humidity	5% to 85%, non-condensing
Power Consumption	Slot power supply (input): to $\pm 5\%$, 900 mA (max.)
	External power supply (input): +5 Vpc ±5%, 500 mA (max.)
B: .	External power supply (output): +5 Vpc ±5%, 500 mA (max.)
Dimension	164 x 98.4 mm (L x H)
ulse 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
ulse Output (Industrial Generato	
Number of Output Channel	6, differential type
Pulse Command Type	CW/CCW, Puls /Direction, A/B Phase
Max. Pulse Rate	500 kHz
nalog 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
nalog 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 μs
igital 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 VRMS
Throughput	10 kHz (0.1 ms)
imer	
One programmable timer interrupt	:
Base Clock	33 MHz by PCI bus
Timer Range	24-bit

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Accessories