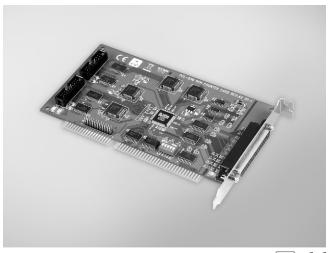
PCL-836

6-ch, 16-bit Counter/Timer ISA Card



Features

- Periodic interrupt generation
- 6 independent 16-bit counters
- Digital filter for noise reduction
- Binary or BCD counting
- Programmable frequency output
- Complex duty-cycle output
- Single-shot output
- 16-bit TTL input and 16-bit TTL output ports
- Selectable interrupt input channel
- Up to 10 MHz input frequency
- · Pulsewidth and period measurement
- Time-delay generation
- F/V conversion and accumulation





Introduction

PCL-836 is a general purpose counter/timer and digital I/O card for PC/AT compatible computers. It provides six 16-bit counter channels. It also includes 16 digital outputs and 16 digital inputs. Two 8254 chips provide a variety of powerful counter/timer function modes to match your industrial and/or laboratory applications.

Unique Digital Filter

PCL-836 includes a unique digital filter to eliminate noise on the input signal. The frequency can be adjusted to provide more stable output readings.

Specifications

Digital Input

 Channels
 Compatibility
 Input Voltage
 Logic 0: 0.8 V max. Logic 1: 2.0 V min.

Digital Output

Channels 16
 Compatibility 5 V/TTL
 Output Voltage Logic 0: 0.8 V Logic 1: 2.0 V
 Output Capability Sink: 8 mA @ 0.8 V Source: -0.4 mA @ 2.0 V

Counter/Timer

Channels 6
 Resolution 16 bits
 Compatibility 5 V/TTL
 Max. Input Frequency 10 MHz
 Reference Clock Internal: 10 MHz
 External clock: 10 MHz
 Counter Modes 6 programmable counter modes

Interrupt Capable Ch. IRQ 2, 4, 5, 7, 10, 11, 12, 15 (jumper selectable)

PWM Channels

Digital Noise Filter
 1.6 ms to 52 ms (programmable)

General

Power Consumption +5 V @ 360 mA (typical) +5 V @ 400 mA (max.)
 Operating Temperature 0 ~ 60° C (32 ~ 140° F)
 Storage Temperature -20 ~ 70° C (-4 ~ 158° F)

• Operating Humidity
Connector

5 ~ 95% RH non-condensing (refer to IEC 68-2-3)
1 x DB37 female connector for counter

2 x 20-pin box header for digital I/O • **Dimensions (L x H)** 185 x 100 mm (7.3" x 3.9")

Ordering Information

■ PCL-836 6-ch. 16-bit Counter/Timer ISA Card

PCL-10137-1
 PCL-10137-2
 PCL-10137-3
 PCL-10137-3
 ADAM-3937
 DB37 Cable, 2 m
 DB37 Cable, 3 m
 DB37 DIN-rail Wiring Board

PCLD-880 Wiring Board w/ Two 20-pin Flat Cables & Adapter

Pin Assignments

CLK1 GATE1 CLK2 GATE2 CLK3 GATE3 CLK4 GATE4 CLK5 GATE5 CLK6 GATE5 CLK6 GATE6 Interrupt Input PWM1 PWM3 Fout1 Fout3	1 20 2 21 3 22 4 23 5 24 6 25 7 26 8 27 9 28 10 29 11 30 12 31 13 32 14 33 15 34 16 35 17 36	OUT1 GND OUT2 GND OUT3 GND OUT4 GND OUT5 GND OUT6 GND Interrupt Enable PWM2 GND Fout2
Fout1	15 34 16 35	GND