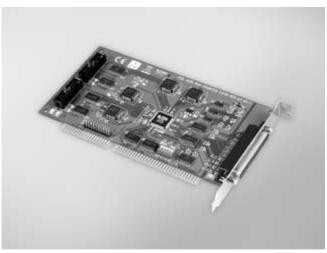
PCL-836

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 5 V/TTL
 Max. Input Frequency Reference Clock Internal: 10 MHz
 Counter Modes 6 programmable counter modes Interrupt Capable Ch. IRQ 2, 4, 5, 7, 10, 11, 12, 15 (jumper selectable)

• PWM Channels 3

Pigital Naisa Filtar

• **Digital Noise Filter** 1.6 ms to 52 ms (programmable)

General

Power Consumption Typical: 5 V @ 360 mA Max.: 5 V @ 400 mA
 Operating Temperature Storage Temperature Operating Humidity S ~ 95% RH non-condensing (refer to IEC 68-2-3)

Connector
 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 DB37 Cable, 1 m
 PCL-10137-2 DB37 Cable, 2 m
 PCL-10137-3 DB37 Cable, 3 m

■ **ADAM-3937** 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 GATE6 Interrupt Input PWM1 PWM3 Fout1 Fout3 Fout5 +5V	1 20 3 22 4 23 5 24 6 25 7 26 8 27 10 29 11 30 12 31 13 32 14 33 15 34 16 35 17 36 18 37	OUT1 GND OUT2 GND OUT3 GND OUT4 GND OUT5 GND OUT6 GND Interrupt Enable PWM2 GND Fout2 Fout4 Fout6