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

16

16

6

3

16 bits

5 V/TTL

10 MHz

Internal: 10 MHz

External clock: 10 MHz

Typical: 5 V @ 360 mA Max.: 5 V @ 400 mA

185 x 100 mm (7.3" x 3.9")

6 programmable counter modes

1.6 ms to 52 ms (programmable)

IRQ 2, 4, 5, 7, 10, 11, 12, 15 (jumper selectable)

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

5 V/TTL

Logic 0: 0.8 V Logic 1: 2.0 V

Sink: 8 mA @ 0.8 V Source: -0.4 mA @ 2.0 V

5 V/TTL

Logic 0: 0.8 V max.

Logic 1: 2.0 V min.

Digital Input

Channels

- Compatibility
- Input Voltage

Digital Output

- Channels
- Compatibility
- Output Voltage
- Output Capability

Counter/Timer

- Channels
- Resolution
- Compatibility
- Max. Input Frequency
- Reference Clock
- Counter Modes
- Interrupt Capable Ch.
- PWM Channels
- Digital Noise Filter

General

Power Consumption

- Operating Temperature $0 \sim 60^{\circ}$ C (32 ~ 140° F)
- Storage Temperature -20 ~ 70° C (-4 ~ 158° F)

Operating Humidity

Connector

Dimensions (L x H)

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Ordering Information

PCL-836PCL-10137-1

PCL-10137-2

PCL-10137-3

ADAM-3937

- 6-ch, 16-bit Counter/Timer ISA Card
- DB37 Cable, 1 m
 - 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

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CLK1 GATE1 CLK2 GATE2 CLK3 GATE3 CLK4 GATE4 CLK5 GATE5 CLK6 GATE5 CLK6 GATE6 Interrupt Input PWM1 PWM3 Fout1 Fout3 Fout5 +5V	1 20 OUT1 2 21 GND 3 22 OUT2 4 23 GND 5 24 OUT3 6 25 GND 7 26 OUT4 8 27 GND 9 28 OUT5 10 29 GND 11 30 OUT6 12 31 GND 13 32 Interrupt Enable 14 33 PWM2 15 34 GND 16 35 Fout2 17 36 Fout4 18 37 Fout6