PCL-836

6-ch Counter/Timer 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

+5 V @ 360 mA (typical) +5 V @ 400 mA (max.)

-20 ~ 70° C (-4 ~ 158° F)

6 programmable counter modes

1.6 ms to 52 ms (programmable)

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

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
	Chaimers

	Com	patibility	,
-	UUIII	μαιιμιιι	/

Input Voltage

Digital Output

- Channels
- Compatibility
- Output Voltage
- Output Capability

Counter/Timer

	Channels
-	Gilainiera

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

General

- Power Consumption
- Operating Temperature 0 ~ 60° C (32 ~ 140° F)
- **Storage Temperature**
- **Operating Humidity**
 - 5 ~ 95% RH non-condensing (refer to IEC 68-2-3) Connector One 37-pin D-type female connector for counter I/O
 - Two 20-pin male flat-cable connector for digital I/O 185 x 100 mm (7.3" x 3.9")
- Dimensions (L x H)

Ordering Information

- PCL-836 6-ch Counter/Timer Card DB37 cable assembly, 1 m PCL-10137-1 PCL-10137-2 DB37 cable assembly, 2 m PCL-10137-3 DB37 cable assembly, 3 m PCLD-880 Screw terminal board ADAM-3937
 - DB-37 wiring terminal for DIN-rail mounting

Pin Assignments

	\frown
CLK1 GATE1 CLK2 GATE2 CLK3 GATE3 CLK4 GATE4 CLK5 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 27 GND 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