PCI-1780U

8-ch, 16-bit Counter/Timer Universal PCI Card



Features

- 8 independent 16-bit counters
- 8 programmable clock source
- 8 digital TTL outputs and 8 digital TTL inputs •
- Up to 20 MHz input frequency
- Multiple counter clock source selectable
- Counter output programmable
- Counter gate function
- Flexible interrupt source select
- BoardID[™] switch .

Introduction

PCI-1780U is a general purpose multi-channel counter/timer PCI card. It targets the AM9513 to implement the counter/timer function by CPLD. It provides eight 16-bit counter channels, 8 digital outputs and 8 digital inputs. Its powerful counter functions cater to a broad range of industrial and laboratory applications.

The card features 12 programmable counter modes, to provide one shot output, PWM output, periodic interrupt output, time-delay output, and to measure the frequency and the pulse width. The PCL-10168 shielded cable works well with PCI-1780U to reduce noise. Its wires are all twisted pairs, and the input signals and output signals are separately shielded, providing minimal cross talk between signals and the best protection against EMI/EMC problems.

Specifications

Digital Input

 Channels 	
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•	Compatibility	5 V/TTL
•	Input Voltage	Logic 0: 0.8 V max.
		Logic 1: 2.0 V min.
	Interrupt Capable Ch.	Ch. 0

8

8

5 V/TTL

Logic 0: 0.8 V

Logic 1: 2.0 V

8 (independent)

16 bits

5 V/TTL

20 MHz

8

Sink: 24 mA @ 0.8V Source: -15 mA @ 2.0V

Interrupt Capable Ch.

Digital Output

- Channels
- Compatibility
- Output Voltage
- Output Capability

Counter/Timer

- Channels
- Resolution
- Compatibility
- Max. Input Frequency
- Reference Clock
- Internal: 20 MHz External clock: 20 MHz max. 12 (programmable)
- Counter Modes Interrupt Capable Ch. 8
- PWM Channels

General

- Bus Type
- I/O Connectors
- Dimensions (L x H)
- Power Consumption
- Max.: 5 V @ 1.2 A
- Operating Temperature 0 ~ 60°C (32 ~ 140°F) -20 ~ 70°C (-4 ~ 158°F)

Universal PCI V2.2

1 x 68-pin SCSI female connector

175 x 100 mm (6.9" x 3.9")

Typical: 5 V @ 900 mA

- Storage Temperature Storage Humidity
 - 5 ~ 95% RH, non-condensing

Ordering Information

PCI-1780U-AE

Accessories

- PCL-10168-1E
- PCL-10168-2E
- ADAM-3968-AE

68-pin SCSI Shielded Cable, 1 m

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- 68-pin SCSI Shielded Cable, 2 m 68-pin DIN-rail SCSI Wiring Board

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