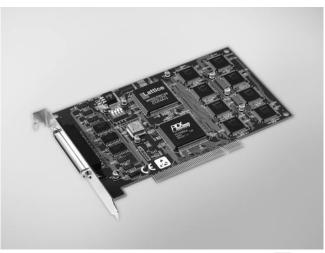
PCI-1780U

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 card for the PCI bus. 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 8 Compatibility 5 V/TTL

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

 Interrupt Capable Ch. CH₀

Digital Output

Channels Compatibility 5 V/TTL Output Voltage Logic 0: 0.8 V Logic 1: 2.0 V Sink: 24 mA @ 0.8 V Output Capability

Source: -15 mA @ 2.0 V

Counter/Timer

Channels 8 (independent) Resolution 16 bits Compatibility 5 V/TTL Max. Input Frequency 20 MHz Reference Clock Internal: 20 MHz

External clock: 20 MHz max.

 Counter Modes 12 (programmable)

 Interrupt Capable Ch. PWM Channels

General

Bus Type Universal PCI V2.2

I/O Connectors 1 x 68-pin SCSI female connector Dimensions (L x H) 175 x 100 mm (6.9" x 3.9") Power Consumption Typical: +5 V @ 900 mA Max.: +5 V @ 1.2 A

• Operating Temperature $0 \sim 60^{\circ} \text{ C} (32 \sim 140^{\circ} \text{ F}) (IEC 68-2-1, 2)$

 Storage Temperature -20 ~ 70° C (-4 ~ 158° F)

 $5 \sim 95$ % RH, non-condensing (IEC 68-2-3) Storage Humidity

Ordering Information

 PCI-1780 8-ch, 16-bit Counter/Timer Universal PCI Card

PCL-10168-1 68-pin SCSI Shielded Cable, 1 m PCL-10168-2 68-pin SCSI Shielded Cable, 2 m ADAM-3968 68-pin DIN-rail SCSI Wiring Board