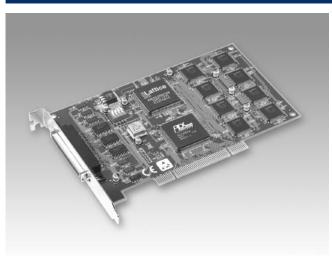
PCI-1780U

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-1780 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 PCl-1780 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 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 8 Compatibility 5 V/TTL Output Voltage Logic 0: 0.8 V Logic 1: 2.0 V Output Capability

Sink: 24 mA @ 0.8 V

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 PCI V2 2

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

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

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

 Storing Humidity 5 ~ 95 % RH, non-condensing (IEC 68-2-3)

Ordering Information

PCI-1780 8-ch Counter/Timer Card PCL-10168-1 SCSI-68 shielded cable, 1 m

ADAM-3968 SCSI-68 wiring terminal, DIN-rail mount