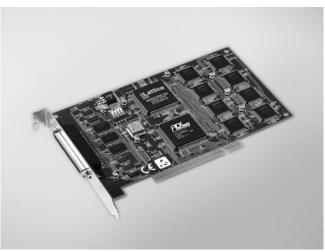
# PCI-1780U

## 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 PCl-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 8Compatibility 5 V/TTL

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

• Interrupt Capable Ch. CHO

#### **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. 8PWM Channels 8

#### General

■ Bus Type Universal PCI V2.2

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

• Storage Temperature  $-20 \sim 70^{\circ} \text{ C } (-4 \sim 158^{\circ} \text{ F})$ 

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

### **Ordering Information**

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

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