# **USB-4751** USB-4751L

## 48-Ch Digital I/O USB Module

## 24-Ch Digital I/O USB Module



#### **Features**

- Compatible with USB 1.1/2.0
- Portable .
- Bus powered
- 48/24 x TTL digital I/O
- Emulates Mode 0 of the Intel<sup>®</sup> 8255 PPI chip
- Buffered circuits offer a higher driving capacity compared to the Intel® 8255 PPI chip
- Interrupt handling capability
- . Timer/Counter interrupt capability
- Supports both dry and wet contact •
- 50-pin Opto-22-compatible box header
- Suitable for DIN rail mounting
- 1 x Lockable USB cable included for connection security

## FCC C E

## Introduction

The USB-4700 series comprises plug-and-play DAQ modules that can be installed without opening the chassis; simply plug in the modules to access collected data. Reliable and rugged enough for industrial applications, yet sufficiently affordable for home systems, USB-4700 series modules provide an easy and efficient means of adding measurement and control capabilities to USB-capable computers.

USB-4751 and USB-4751L are 48/24-bit digital I/O modules that feature a USB interface, event counter, and three 16-bit timers, which can be cascaded to provide a 32-bit timer. The 48/24 bits are divided into six/three 8-bit I/O ports that can be individually configured as input or output ports using software.

## **Specifications**

#### **Digital Input**

USB-475TE: 24 (snared with output)
5 V/TTL
Logic 0: 0.8 V max. Logic 1: 2 V min.

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32-bit

#### **Digital Output**

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- Compatibility
- Output Voltage Output Capability

USB-4751L: 24 (shared with input) 5 V/TTL Logic 0: 0.5 V max. Logic 1: 3.8 V min. Sink: 12 mA @ 0.5 V Source: 12 mA @ 3.8 V for single channels 5 mA @ 3.8 V for all channels in high status

USB-4751: 48 (shared with output)

USB-4751: 48 (shared with input)

#### **Counter/Timer**

- Channels
- Resolution
- Max. Input Frequency 8 MHz

#### General

- Bus Type
- I/O Connector

USB 1.1/2.0

- 50-pin box headers, pin assignments are fully compatible with Opto-22 I/O module racks
- Dimensions (L x W x H) 132 x 80 x 32 mm (5.2" x 3.15" x 1.26")
- Typical: 5 V @ 200 mA Power Consumption
- Max.: 5 V @ 500 mA Operating Temperature 0 ~ 60 °C (32 ~ 140 °F)
  - -20 ~ 70 °C (-4 ~ 158 °F)
- Storage Temperature Storage Humidity 5~95% RH, non-condensing

### **Ordering Information**

- USB-4751-AE
- USB-4751L-AE

#### Accessories

- 1960004544
  - VESA mount bracket
- PCL-10150-1.2E
- 50-pin DIN rail flat cable wiring board 24-ch IDI board with 20-pin and 50-pin flat cables

48-ch digital I/O USB module

24-ch digital I/O USB module

Wall mount bracket

24-ch relay board with 20-pin and 50-pin flat cables

AD\ANTECH Industrial I/O

All product specifications are subject to change without notice.

- 1960005788
  - 50-pin flat cable, 1.2 m
- ADAM-3950-AE
- PCLD-782B-AE
- PCLD-785B-AE