# **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
- 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

## 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 affordable for home systems, USB-4700 series modules provide easy and efficient means of adding sensing and control capabilities to USB-capable computers.

USB-4751 and USB-4751L are 48/24-bit digital I/O modules that feature USB interface, event counter, and 2-channel 32-bit counters. The 48/24 bits are divided into six/three 8-bit I/O ports that can be individually configured as input or output ports via software.

## **Specifications**

#### **Digital Input**

<ul> <li>Channels</li> </ul>	
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USB-4751: 48 (shared with output) USB-4751L: 24 (shared with output) 5 V/TTL Logic 0: 0.8 V max. Logic 1: 2 V min.

#### **Digital Output**

Compatibility

Input Voltage

- (	Channe	els
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	USB-4751L: 24 (shared with input)
<ul> <li>Compatibility</li> </ul>	5 V/TTL
<ul> <li>Output Voltage</li> </ul>	Logic 0: 0.5 V max.
	Logic 1: 3.8 V min.
<ul> <li>Output Capability</li> </ul>	Sink: 12 mA @ 0.5 V

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ink: 12 mA @ 0.5 Source: 12 mA @ 3.8 V for single channel 20mA summed by port (8-channel summed)

USB-4751: 48 (shared with input)

#### **Counter/Timer**

- Channels
- Resolution
- 32-bit Max. Input Frequency 10MHz
- Supported counter functions

Event counting, frequency measurement, Timer/pulse, pulse width modulation (PWM output)\*

#### General

- Bus Type
  - I/O Connector
  - 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")
  - Power Consumption Typical: 5 V @ 100 mA Max.: 5 V @ 500 mA

USB 1.1/2.0

50-pin box headers, pin assignments are fully

- Operating Temperature 0 ~ 60 °C (32 ~ 140 °F)
- . Storage Temperature
  - -20 ~ 70 °C (-4 ~ 158 °F) **Storage Humidity** 5~95% RH, non-condensing

## **Ordering Information**

- USB-4751-BE 48-ch digital I/O USB module
- USB-4751L-BE 24-ch digital I/O USB module

#### Accessories

- 1960004544 Wall mount bracket 1960005788 VESA mount bracket
- PCL-10150-1.2E ADAM-3950-AE
- 50-pin flat cable, 1.2 m 50-pin DIN rail flat cable wiring board

\* For detail specification of counter functions, please refer to the user manual

