**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® 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

**Introduction**



RoHS

**COMPLIANT 2002/95/EC**

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

* **Channels** USB-4751: 48 (shared with output) USB-4751L: 24 (shared with output)
* **Compatibility** 5 V/TTL
* **Input Voltage** Logic 0: 0.8 V max. Logic 1: 2 V min.

## Digital Output

* **Channels** USB-4751: 48 (shared with input) USB-4751L: 24 (shared with input)
* **Compatibility** 5 V/TTL
* **Output Voltage** Logic 0: 0.5 V max. Logic 1: 3.8 V min.
* **Output Capability** 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

## Counter/Timer

### Channels 2

* **Resolution** 32-bit

### Max. Input Frequency 8 MHz

**General**

* **Bus Type** USB 1.1/2.0
* **I/O Connector** 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")

* **Power Consumption** Typical: 5 V @ 200 mA

Max.: 5 V @ 500 mA

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

## Accessories

* **1960004544** Wall mount bracket
* **1960005788** VESA mount bracket
* **PCL-10150-1.2E** 50-pin flat cable, 1.2 m
* **ADAM-3950-AE** 50-pin DIN rail flat cable wiring board
* **PCLD-782B-AE** 24-ch IDI board with 20-pin and 50-pin flat cables
* **PCLD-785B-AE** 24-ch relay board with 20-pin and 50-pin flat cables

**Industrial I/O**

All product specifications are subject to change without notice. Last updated: 27-Jun-2018