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

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/TT

 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 2Resolution 32-bitMax. 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 $0 \sim 60$ °C $(32 \sim 140$ °F)

Storage Temperature
 Storage Humidity
 Storage Humidity

Ordering Information

USB-4751-AE
 USB-4751L-AE
 48-ch digital I/O USB module
 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
 PCLD-785B-AE
 24-ch IDI board with 20-pin and 50-pin flat cables
 24-ch relay board with 20-pin and 50-pin flat cables