

# USB-4761

## 8-ch Relay, 8-ch Isolated D/I USB Module

NEW



### Features

- Supports USB 2.0
- Portable
- No need for the external power
- 8 relay output channels and 8 isolated digital input channels
- LED indicators to show activated relays
- 8 Form C type relay output channels
- High-voltage isolation on input channels (2,500 V<sub>DC</sub>)
- High ESD protection (2,000 V<sub>DC</sub>)
- Wide input range (5 ~ 30 V<sub>DC</sub>)
- Interrupt handling capability
- Wiring terminal on Modules

### Introduction

The USB-4761 is a relay actuator and isolated D/I module for USB bus. It provides 8 optically-isolated digital inputs with isolation protection of 2,500 V<sub>DC</sub> for collecting digital inputs in noisy environments and 8 relay actuators for serving as on/off control devices or small power switches. For easy monitoring, each relay is equipped with one red LED to show its on/off status. The USB-4761's eight optically-isolated digital input channels are ideal for digital input in noisy environments or with floating potentials.

### Rugged Protection

The USB-4761 digital input channels feature a rugged isolation protection for industrial, lab and machinery automation applications. It durably withstands voltage up to 2,500 V<sub>DC</sub>, protecting your host system from any incidental harms. If connected to an external input source with surge-protection, the USB-4761 can offer up to a maximum of 2,000 V<sub>DC</sub> ESD (Electrostatic Discharge) protection.

### Specifications

#### Isolated Digital Input

- **Channels** 8
- **Input Voltage** Logic 0: 2 V max.  
Logic 1: 10 V (30 V max.)
- **Isolation Protection** 2,500 V<sub>DC</sub>
- **Opto-Isolator Response** 25  $\mu$ s
- **Input Current** 30 V<sub>DC</sub>/1 A

#### Relay Output

- **Channels** 8
- **Relay Type** SPDT (8 x Form C)
- **Contact Rating** 250 V<sub>AC</sub> @ 3 A, or 24 V<sub>DC</sub> @ 3 A
- **Relay on Time** 15 ms max.
- **Relay off Time** 5 ms max.
- **Life Span** 2 x 10<sup>7</sup>
- **Resistance** Contact: 50 M $\Omega$   
Insulation: 1 G $\Omega$  min. (at 500 V<sub>DC</sub>)

#### General

- **Bus Type** USB 2.0
- **I/O Connectors** On-board screw terminal
- **Dimensions (L x W x H)** 132 x 80 x 32 mm
- **Power Consumption** Typical: +5 V @ 60 mA  
Max: +5 V @ 400 mA
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F) (IEC 68-2-1, 2)
- **Storing Temperature** -20 ~ 70° C (-4 ~ 158° F)
- **Storing Humidity** 5 ~ 95 % RH, non-condensing (IEC 68-2-3)

### Ordering Information

- **USB-4761** 8-ch Relay, 8-ch Isolated D/I USB Module

1

Software

2

IPPC

3

TPC

4

FPM

5

ATM & AWS

6

DA&C

7

cPCI

8

ADAM-3000

9

Motion Control

10

ICOM

11

Industrial Networking

12

UNO

13

ADAM-4000

14

ADAM-5000

15

ADAM-6000

16

ADAM-8000

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BAS