

# USB-4750

# USB-4761

## 32-Ch Isolated Digital I/O USB Module

## 8-Ch Relay, 8-Ch Isolated Digital Input USB Module



USB-4750



### Features

- Compatible with USB 1.1/2.0
- Bus powered
- 16 x isolated digital input and 16 x digital output channels
- High voltage isolation on all channels (2,500 V<sub>DC</sub>)
- High sink current on isolated output channels (200 mA/channel)
- Supports 5 ~ 60 V<sub>DC</sub> isolated input channels
- Interrupt handling capability
- Timer/counter capability
- Suitable for DIN rail mounting
- 1 x Lockable USB cable included for connection security

### Specifications

#### Isolated Digital Input

- Channels** 16
- Input Voltage** Logic 0: 2 V max.  
Logic 1: 5 V min. (60 V max.) or dry contact
- Interruptible Channels** 2
- Isolation Protection** 2,500 V<sub>DC</sub>

#### Isolated Digital Output

- Channels** 16
- Output Type** Sink (NPN)
- Isolation Protection** 2,500 V<sub>DC</sub>
- Output Voltage** 5 ~ 40 V<sub>DC</sub>
- Sink Current** 200 mA max. per channel  
Total 1.1 A max.

#### Isolated Counter

- Channels** 2
- Resolution** 32 bit
- Max. Input Frequency** 1 MHz
- Isolation Protection** 2,500 V<sub>DC</sub>

#### General

- Bus Type** USB 1.1/2.0
- I/O Connector** Onboard screw terminal
- 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 @ 350 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-4750-BE** 32-ch isolated digital I/O USB module

#### Accessories

- 1960004544** Wall mount bracket
- 1960005788** VESA mount bracket



USB-4761



### Features

- Compatible with USB 1.1/2.0
- Portable
- Bus powered
- 8 x Relay output and 8 x isolated digital input channels
- LED indicators to show activated relays
- 8 x Form C-type relay output channels
- High-voltage isolation on input channels (2,500 V<sub>DC</sub>)
- High ESD protection (2,000 V)
- Wide input range (5 ~ 30 V<sub>DC</sub>)
- Interrupt handling capability
- Detachable screw terminal on modules
- Suitable for DIN rail mounting
- 1 x Lockable USB cable included for connection security

### Specifications

#### Isolated Digital Input

- Channels** 8
- Input Voltage** Logic 0: 2 V max.  
Logic 1: 5 V min. (30 V max.)
- Isolation Protection** 2,500 V<sub>DC</sub>
- Opto-Isolator Response** 50 µs

#### Relay Output

- Contact Rating** 0.25 A @ 240 V<sub>AC</sub>, 1 A @ 30 V<sub>DC</sub>
- Max. Switching Power** 62.5 VA, 60 W
- Max. Switching Voltage** 250 V<sub>AC</sub>, 220 V<sub>DC</sub>
- Max. Switching Current** 5 A
- Operate/Release Time** max. 5 / 4 ms
- Life Expectancy (Electrical)** 5 x 10<sup>7</sup> cycles typ. @ 10 mA/12 V  
2 x 10<sup>6</sup> cycles typ. @ 2000 mA/30 V

#### General

- Bus Type** USB 1.1/2.0
- I/O Connector** Onboard screw terminal
- 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 @ 60 mA  
Max.: 5 V @ 400 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-4761-BE** 8-ch relay/isolated digital input USB module

#### Accessories

- 1960004544** Wall mount bracket
- 1960005788** VESA mount bracket