USB-4750
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32-Ch Isolated Digital I/O USB Module
8-Ch Relay, 8-Ch Isolated Digital Input USB Module

USB-4750

FCC CE RoHS COMPLIANT 2002/95/EC

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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_{DC})
- High sink current on isolated output channels (200 mA/channel)
- Supports 5 ~ 60 V_{DC} 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_{DC}

Isolated Digital Output

▪ **Channels**	16
▪ **Output Type**	Sink (NPN)
▪ **Isolation Protection**	2,500 V_{DC}
▪ **Output Voltage**	5 ~ 40 V_{DC}
▪ **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_{DC}

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

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_{DC})
- High ESD protection (2,000 V)
- Wide input range (5 ~ 30 V_{DC})
- 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_{DC}
▪ **Opto-Isolator Response**	50 µs

Relay Output

▪ **Contact Rating**	0.25 A @ 240 V_{AC}, 1 A @ 30 V_{DC}
▪ **Max. Switching Power**	62.5 VA, 60 W
▪ **Max. Switching Voltage**	250 V_{AC}, 220 V_{DC}
▪ **Max. Switching Current**	5 A
▪ **Operate/Release Time**	max. 5 / 4 ms
▪ **Life Expectancy**	5 x 10^{7} cycles typ. @ 10 mA/12 V
(Electrical)	2 x 10^{5} 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

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