

- **USB-16REL**
- **USB to 16 reed relay outputs digital device**



➤ **Digital control from USB**

The USB-16REL is a USB solution for digital control in a small rectangular enclosure where plug-in boards with onboard relays is not an option as in such situations as no more computer slots available, interrupt conflicts, the need to be remote from the computer and in laptops or mobile computers. The USB-16REL reed relays are excellent in control & automation applications including switches, test equipment, instrumentation, process control, satellite/microwave network or antenna control systems, video and studio automation, security control systems, audio switching, analog multiplexing and many other industrial applications.

The reed relays are more reliable compared to electro-mechanical relays in applications of high switch count. The USB-16REL's 16 reed relay outputs provide high quality, long life, low current (10W max.) dry contact switch closures. The USB-16REL offers the same features as our ISA 16REL and PCI-16REL but connects up to any standard computer USB port. Unlike the plug-in boards, it uses no interrupts and has hot-swap capability in all Plug-n-Play Windows OS and future support in any OS that supports USB. Our unique serial string naming feature allows multiple USB digital I/O devices to retain their specific identity within the system. Onboard removable screw terminals are provided at no extra charge to simplify wiring connections.

- **Hot-swapping/auto configuration**
- **Two sets of SPST relays, eight per set**
- **Highly reliable 10VA DIP reed relays utilized**
- **Onboard removable screw terminals**
- **Compatible with third party PC-based control programs**
- **Serial string allows individual device naming and configuration**
- **No external power required (USB port only)**
- **USB supported OS software drivers for Windows®98/2000/Me/XP**

► USB-16REL - Technical Specifications

Channels

- 16 outputs

Arrangement

- SPST relays

Resistance

- 150-milliOhm max. (initial)

Life Expectancy

- 200 million operations (low load)
- 100 million operations (maximum load)

Switching Power (max.)

- 10VA, resistive load

Switching Current (max.)

- 0.5A

Carry Current (max.)

- 1A

Speed (max.)

- 600Hz

Contact Voltage (max.)

- 100VDC or AC

Interrupts

- None beyond USB port

Interface

- USB, V1.1 compliant

Connector

- Two removable 16-screw terminals on each side of enclosure (two contacts per relay)

Dimensions

Overall Length

- 6.97-inch (177mm)

Box Width

- 5.32-inch (135mm)

Width with Terminals

- 6.23-inch (158mm)

Height

- 1.5-inch (38mm)

Height with Bumpers

- 1.58-inch (40mm)

Weight

- 14.4oz (408.2g)

Power Requirements

- +5VAC @ 500mA

Environmental

Operating Temperature

- 0 °to 70 °C (32 °to 158 °F)

Non-Operating Temperature

- -20 ° to 70 °C (-4 °to 158 °F)

Humidity

- 10 to 90% RHNC (max.)

MTBF

- >150,000hrs (calculated)

Agency Approvals

- CE Marked

OS Support

- Windows®98/2000/Me/XP USB to I/O support

Support

- Superior pre- and post sales technical support
- Two year limited warranty

Ordering Guide

USB-16REL

- 16 reed relays from USB, USB cable, manual CD & software CD



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