

8-Channel Relay/Isolated DI USB Data Acquisition Module

USB-4761



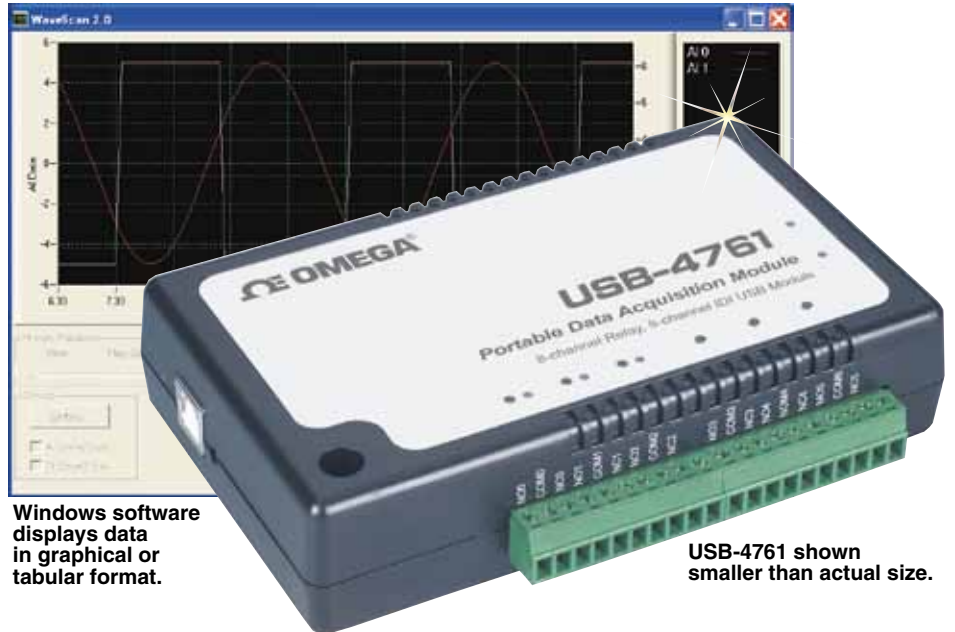
- ✓ Supports USB 1.1/2.0
- ✓ Bus-Powered
- ✓ 8 Relay Output Channels and 8 Isolated Digital Input Channels
- ✓ LED Indicators to Show Activated Relays
- ✓ 8 Form C Type Relay Output Channels
- ✓ High-Voltage Isolation on Input Channels (2500 Vdc)
- ✓ High ESD Protection (2000 Vdc)
- ✓ Wide Input Range (5 to 30 Vdc)
- ✓ Interrupt Handling Capability
- ✓ Suitable for DIN-Rail Mounting
- ✓ Lockable USB Cable for Rigid Connection

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 2500 Vdc 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 8 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 2500 Vdc, protecting your host



Windows software displays data in graphical or tabular format.

USB-4761 shown smaller than actual size.

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 2000 Vdc ESD (Electrostatic Discharge) protection.

Data collection is simple. Simply plug the data acquisition module into an available USB port and our easy-to-use Windows software does the rest. The software converts your PC into a real-time strip chart recorder. Data can be printed in graphical or tabular format. It can also be exported to a text or Microsoft Excel file.

Specifications

ISOLATED DIGITAL INPUT

Channels: 8
Input Voltage:
 Logic 0: 2 V max
 Logic 1: 5 V min (30 V max)
Isolation Protection: 2500 Vdc
Opto-Isolator Response: 25 µs
Input Current: 30 Vdc/1A

RELAY OUTPUT

Channels: 8
Relay Type: SPDT (8 x Form C)
Contact Rating: 125 Vac @ 0.5 A, or 30 Vdc @ 1 A

Relay on Time: 15 ms max
Relay off Time: 5 ms max
Life Span: 2 x 10⁷
Resistance:
 Contact: 50 MΩ
 Insulation: 1 GΩ min (at 500 Vdc)

GENERAL

Bus Type: USB 1.1/2.0
Software: Windows 2000/XP
I/O Connector:
 On-board screw terminal
Dimensions:
 80 H x 132 L x 32 mm D
 (3.1 x 5.2 x 1.3")
Power Consumption:
 5V @ 100 mA typical
 (5V @ 400 mA max)
Power Input: 5 V from USB line
Watchdog Timer: 1.6 sec (system)
Operating Temperature:
 0 to 60°C (32 to 140°F)
Storing Temperature:
 -20 to 70°C (-4 to 158°F)
Storing Humidity: 5 to 95%
 RH non-condensing



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

To Order

Model No.	Description
USB-4761	8-channel relay/isolated DI USB module

Comes with Windows Software and complete user manual on CD, a 1.8 m (6') USB 2.0 cable, and DIN rail mounting kit.

Ordering Example: **USB-4761**, 8-channel relay/isolated DI USB data acquisition module, and OMEGACARESM 1-year extended warranty for **USB-4761** and **OCW-1**, OMEGACARESM extends standard 1-year warranty to a total of 2 years.