48/24-Channel TTL Digital I/O USB Data Acquisition Modules

USB-4751 Series
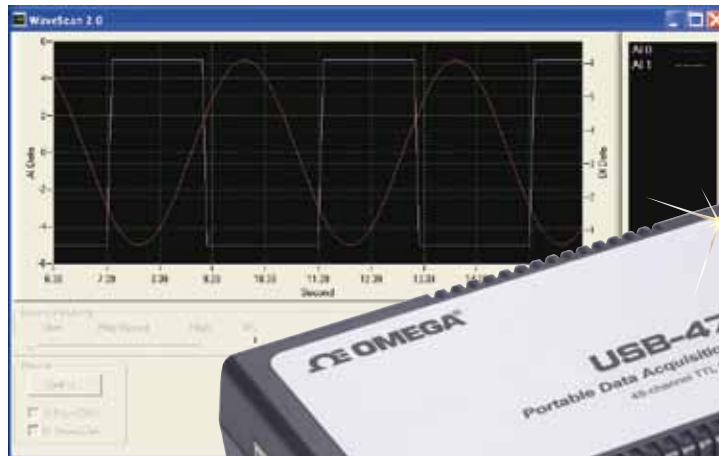
1 YEAR WARRANTY CE RoHS

✔ **Compatible with USB 1.1/2.0**
✔ **Portable**
✔ **Bus-Powered**
✔ **48/24 TTL Digital I/O Lines**
✔ **Emulates Mode 0 of 8255 PPI**
✔ **Buffered Circuits for Higher Driving Capacity than 8255**
✔ **Interrupt Handling**
✔ **Timer/Counter Interrupt Capability**
✔ **Supports Both Dry and Wet Contact**
✔ **50-Pin Opto-22 Compatible Box Header**
✔ **Suitable for DIN-Rail Mounting**
✔ **Lockable USB Cable for Rigid Connection**

The USB-4700 series consists of true Plug & Play data acquisition devices. No more opening up your computer chassis to install boards- just plug in the module, then get the data.

It's easy and efficient. Models USB-4751 (48-bit) and USB-4751L (24-bit) are digital I/O data acquisition modules for the USB bus. The 48/24 bits are divided into six/three 8-bit I/O ports, and users can configure each port as input or output via software. The USB-4751 and USB-4751L also provide one event counter and three 16-bit timers, which can be cascaded to become a 32-bit timer.

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.

Windows software displays data in graphical or tabular format.

USB-4751 shown smaller than actual size.

Specifications

DIGITAL INPUT
Channels:
  USB-4751: 48
  USB-4751L: 24
  (shared with output)
Compatibility: 5V/TTL
Input Voltage:
  Logic 0: 0.8V max
  Logic 1: 2V min

DIGITAL OUTPUT
Channels:
  USB-4751: 48
  USB-4751L: 24
  (shared with input)
Compatibility: 5V/TTL
Output Voltage:
  Logic 0: 0.4 V max
  Logic 1: 2.4 V min
Output Capability:
  Sink: 0.4 V @ 8 mA
  Source: 2.4 V @ 4 mA

COUNTER/TIMER
Channels: 3
Resolution: 2 x 16-bit counters, or 1 x 32-bit counter; 1 x 16-bit event counter
Compatibility: 5 V/TTL
Max Input Frequency: 10 MHz

GENERAL
Bus Type: USB 1.1/2.0
Software: Windows 2000/XP
I/O Connectors: 50-pin IDC male connectors, pin assignments are fully compatible with Opto-22 I/O module racks
Dimensions:
132 L x 80 W x 32 mm H
(5.2 x 3.1 x 1.3")
Power Consumption: 5 V @ 200 mA typical; 5 V @ 300 mA max
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

OMEGACARE℠ Extended Warranty Program

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

To Order	
Model No.	**Description**
USB-4751	48-channel TTL digital I/O USB module
USB-4751L	24-channel TTL digital I/O 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-4751,** 48-channel TTL DI/O USB data acquisition module and **OCW-1,** OMEGACARE ℠ extends standard 1-year warranty to a total of 2 years.*