

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



USB-4751 Series
Starts at
\$135

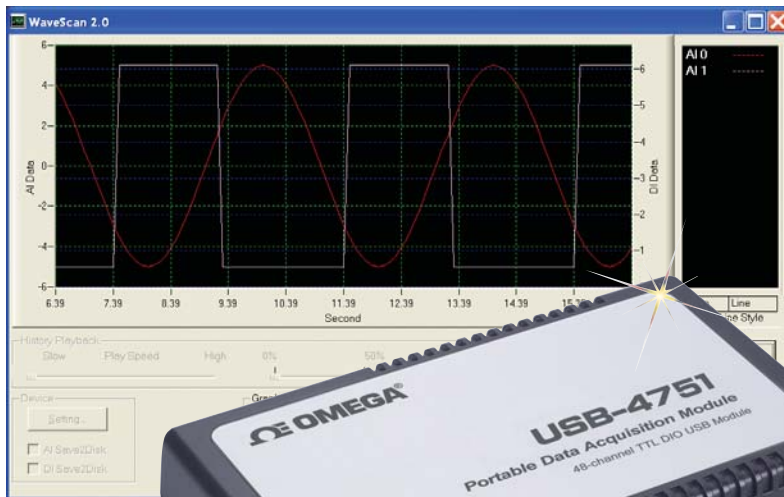


- Compatible with USB 1.1/2.0
- Portable
- Bus-Powered
- 48/24 TTL Digital I/O Lines
- Emulates Mode 0 of 8255 PPI
- Buffered Circuits for Higher Driving Capacity than 8255
- Interrupt Handling
- Timer/Counter Interrupt Capability
- Supports Both Dry and Wet Contact
- 50-Pin Opto-22 Compatible Box Header
- 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, \$155, 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

MOST POPULAR MODEL HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Description
USB-4751	\$155	48-channel TTL digital I/O USB module
USB-4751L	135	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 D/I/O USB data acquisition module and OMEGACARE 1 year extended warranty for USB-4751 (adds 1 year to standard 1 year warranty), \$155 + 25 = **\$180**.



UNITED STATES

www.omega.com
1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca
Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

www.omega.co.uk
Manchester, England
0800-488-488

FRANCE

www.omega.fr
Guyancourt, France
088-466-342

CZECH REPUBLIC

www.omegaeng.cz
Karviná, Czech Republic
596-311-899

BENELUX

www.omega.nl
Amstelveen, NL
0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters