



150 kS/s 12-Bit Multifunction USB Data Acquisition Module

USB-4711A
£365



- ✓ Supports USB 2.0
- ✓ Bus-Powered
- ✓ 16 Analogue Inputs
- ✓ 12-Bit Resolution
- ✓ Sampling Rate up to 150kS/s
- ✓ 8 DI/8 DO, 2 AO and One 32-bit Event Counter
- ✓ Suitable for DIN-Rail Mounting
- ✓ Lockable USB Cable for Rigid Connection

The USB-4700 series consists of true Plug & Play data acquisition modules. No more opening up your computer chassis to install boards.

Just plug in the module, then get the data. It's easy and efficient. Reliable and rugged enough for industrial applications, yet inexpensive enough for all types of projects, the USB-4711 is the perfect way to add measurement and control capability to any USB capable computer. The USB-4711 is fully USB Plug & Play and easy to use. It obtains all required power from the USB port, so no external power connection is ever required.

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

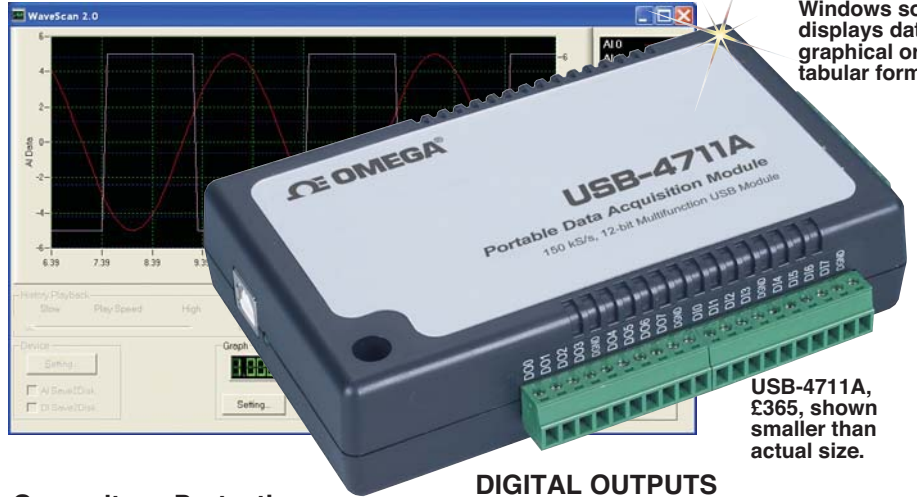
ANALOGUE INPUT

Channels: 16 single-ended/8 differential (SW selectable)

Resolution: 12-bits

Max Sampling Rate:* 150k S/s max

FIFO Size: 1024 samples



Windows software displays data in graphical or tabular format.

USB-4711A, £365, shown smaller than actual size.

Overvoltage Protection:

30 Vp-p
Input Impedance:
 USB-4711A: 1 G Ω
Sampling Modes:
 Software, onboard programmable pacer, or external

ANALOGUE OUTPUT

Channels: 2
Resolution: 12-bits
Range: 0 to 5V, 0 to 10V, $\pm 10V$ (software programmable)
Output Rate: Static update
Slew Rate: 0.15 V/lS
Driving Capability: 2 mA @ 10V
Output Impedance: 0.5
Operation Mode: Single output
Accuracy:
 Relative: ± 1 LSB
 Differential On-Linearity: ± 1 LSB

DIGITAL INPUTS

Channels: 8
Compatibility: 3.3V/5 V/TTL
Input Voltage:
 Logic 0: 0.8V max
 Logic 1: 2.0V min

Analog Input Range

V, Software Programmable					
Bipolar	± 10	± 5	± 2.5	± 1.25	± 0.625
Accuracy (% of FSR +1 LSB)	0.1	0.1	0.2	0.2	0.4

* Note: The sampling rate and throughput depends on the computer hardware architecture and software environment. The rates may vary due to programming language, code efficiency, CPU utilization and so on.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
USB-4711A	£365	150 kS/s, 12-bit multifunction 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-4711A, 150 kS/s, 12-bit multifunction USB data acquisition module, and OMEGACARESM 1-year extended warranty for USB-4711A (adds 1 year to standard 1-year warranty), £365 + 36 = £401.

omega.co.uk[®]

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

www.omega.co.uk



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

088-466-342

CZECH REPUBLIC

www.omegaeng.cz

Karviná, Czech Republic

596-311-899

BENELUX

www.omega.nl

0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, 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, Thermocouple Wire, RTD Probes

• 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, Pressure Transmitters, Strain Gauges, 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