

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



USB-4711A
\$545

Windows software displays data in graphical or tabular format.



- ✓ Supports USB 2.0
- ✓ Bus-Powered
- ✓ 16 Analog Input Channels
- ✓ 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

ANALOG INPUT

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

Resolution: 12-bits

Max Sampling Rate:* 150k S/s max

FIFO Size: 1024 samples



USB-4711A, \$545, 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

ANALOG OUTPUT

Channels: 2

Resolution: 12-bits

Range: 0 to 5V, 0 to 10V, ± 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	\$545	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), \$545 + 54 = **\$599**.



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• 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

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• Data Acquisition

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• 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