

ACCES I/O Products, Inc.

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www.accessio.com**USB-AI Series**

The USB-AI Series is a line of low-cost USB/104 analog input modules. This innovative series of 12- and 16-bit USB boards starts with its flagship model, the USB-AI16-16A. This high-speed USB 2.0, 16-bit multifunction analog input board is ideal for precision measurement, analysis, monitoring, and control in countless embedded applications. The USB-AI16-16A can sample inputs at speeds up to 500kHz for the board's 16 single-ended or 8 differential analog input channels. Standard features in the USB-AI Series include 16 digital I/O lines and a 16-bit counter/timer – all packaged in a small, rugged, industrial enclosure. With an excellent price/performance value, this family of boards also includes models with slower A/D speeds and a group of 12-bit modules for less demanding applications. The OEM USB/104 version provides just the board without the enclosure and is ideal for a variety of embedded OEM applications – simply connect to any available USB port.

**FEATURES**

- › High-speed USB 2.0 device with up to 500kHz sampling rate
- › All functions fully software configurable
- › 16-bit and 12-bit models with 16 single-ended or 8 differential inputs
- › 8 input ranges, unipolar or bipolar
- › Autocalibration and real-time hardware calibration and oversampling for accurate data
- › Unique channel-by-channel programmable gain feature
- › Data buffer for A/D
- › Synchronous, asynchronous, and timed trigger modes
- › 16-bit counter/timer for event counting or frequency generation
- › USB/104 form factor for OEM embedded applications features PC/104 module size and mounting compatibility