

ACCES I/O Products, Inc.

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USB-AI Series, up to 128 Differential Analog Inputs

The USB-AI Series is a new line of low-cost USB/104 analog input modules. This innovative line of 12- and 16-bit USB modules offers up to 128 differential inputs and is ideal for precision measurement, analysis, monitoring, and control in countless embedded applications. Standard features in the USB-AI Series include additional 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. The USB-AI Series offers a wide range of signal conditioning types per channel such as: RC filters on each input, voltage divider on each input, 4-20mA current inputs, thermocouples (temp sensor for cold junction), RTD measurement, and bridge completion.



FEATURES

- › High-speed USB 2.0 device with up to 500kHz sampling rate
- › Up to 128 signal conditioned analog inputs, 12- or 16-bit
- › Eight input ranges, unipolar or bipolar
- › Real-time hardware auto-calibration and oversampling for accurate data
- › Wide range of signal conditioning types per channel:
- › RC filters and voltage divider on each input
- › 4-20mA current inputs
- › Thermocouples (temp sensor for cold junction)
- › RTD measurement and bridge completion
- › A/D starts via software, timer, or external trigger
- › 16-bit programmable counter/timer

For more information, contact: contactus@accessio.com

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