ACCES I/O Releases a New Series of Fully Software Selectable USB Analog Input Modules (Five Models) Starting Under $350 USD

SAN DIEGO, Calif.—February 26th, 2008—ACCES I/O Products announces the immediate release of a new series of low cost USB analog input modules – the USB-AI Series. This innovative line of 12 and 16-bit USB modules will be showcased at the upcoming Embedded Systems Conference in San Jose. Starting 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.

The USB-AI Series includes five models (USB-AI16-16A, USB-AI16-16E, USB-AI12-16A, USB-AI12-16, and USB-AI12-16E) with list prices ranging from only $339 to $639, an unprecedented value. The boards feature eight standard analog voltage input ranges, two factory current input ranges (4-20mA or 10-50mA) and includes a data sample buffer and hardware real-time calibration capability. A unique channel-by-channel programmable gain feature enables measurement of an assortment of large and small signals in one scan—all under software control at up to 500kHz. The board's data buffer and ability to trigger the A/D in real time assures synchronized sampling that is unaffected by other computer operations—an essential requirement for signal, vibration and transient analysis where high data rates must be sustained for short periods of time. For embedded OEM type applications, an additional miniature USB input header is provided in parallel with the type B connector. Available accessories include a wide variety of cables and screw terminal boards for quick and easy connectivity.

Key features of the USB-AI Series include:

- 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
- Eight 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 high-current digital I/O lines
- 16-bit counter/timer for event counting or frequency generation
- USB/104 form-factor for OEM embedded applications
- Small, (4" x 4" x 1.25") rugged industrial enclosure
- OEM (board only) option features PC/104 module size and mounting compatibility
- Extended temperature and DIN rail mounting provisions
- All required power drawn from USB port, no external power adapter required

The USB-AI Series was designed to be used in rugged industrial environments but is small enough to fit nicely onto any desk or testing station. The board measures just 3.550 by 3.775 inches and ships inside a steel powder-coated enclosure with an anti-skid bottom. A DIN rail mounting provision is available for installation in industrial environments. What makes the OEM option unique is that its PCB size and pre-drilled mounting holes match the PC/104 form factor (without the bus connections). This ensures easy installation using standard standoffs inside most enclosures or systems. The USB-AI Series can be integrated into any PCI-104 or PC/104 stack by connecting it to a USB 2.0 port usually included on-board with embedded CPU form factors such as EBX, EPIC, and PC/104—especially important since many newer CPU chipsets do not support ISA and have plenty of USB ports.

The USB-AI16-16A is supported for use in most operating systems and includes a free Linux (including Mac OS X) and Windows 95/98/Me/NT/2000/XP/2003-compatible software package. This package contains sample programs and source code in Visual Basic, Delphi, C++ Builder and Visual C++ for Windows. Also incorporated is a graphical setup program in Windows. Third-party support includes a Windows standard DLL interface usable from most popular application programs, and includes example LabVIEW VIs. Embedded OS support includes Windows XPe.

About ACCES I/O Products, Inc.
For over 20 years, ACCES I/O Products, Inc. has supplied an extensive range of analog, digital, serial communication, and isolated I/O boards and solutions. ACCES also offers complete systems, integration services and enclosures with a quick turn-around on custom projects including software. ACCES products are designed for use with PC/104, PCI, PCI-X, Low Profile PCI, EBX, ETX, EPIC, USB, Ethernet and ISA, as well as distributed and wireless I/O. All hardware comes with a 30-day, no-risk return policy and a three-year warranty. For further information, visit the company's web site at www.accesio.com.

Price:	Prices range from $339 to $639
Availability:	Now
Delivery:	Stock to two weeks ARO

For Further Information, Contact:

Chris Persidok
Marketing Manager
ACCES I/O Products, Inc.
10623 Roselle Street, San Diego, CA 92121
Tel: 858.550.9559 • FAX: 858.550.7322
E-mail: cpersidok@accesio.com
URL: www.accesio.com

ACCES I/O Releases a New Series of Fully Software
Selectable USB Analog Input Modules (Five Models)
Starting Under $350 USD