ACCES I/O Releases a New Series of Fast USB Digital Waveform (Pattern) Generator Modules (Four Models) Starting Under $350 USD

SAN DIEGO, Calif.—July 31, 2008—ACCES I/O Products announces the release of their fastest USB/104 digital I/O unit to date – Model USB-DIO-16H. The unit features 16 high-speed buffered digital inputs or digital outputs at continuous, sustained streaming speeds up to 16 MB/s for fast, unlimited waveform length. The module is capable of 80 MB/s bursts with handshaking signals for synchronizing communications plus an additional 18 bits of general purpose digital I/O. The USB-DIO-16H is a port-powered high-speed USB 2.0 device and offers hot swapping functionality for quick connect/disconnect whenever you need additional I/O on your USB port.

The series includes four models (USB-DIO-16H, USB-DIO-16A, USB-DI16A, and USB-DO16A) with list prices starting at only $329, an exceptional value. Choose from input only, output only, and input/output versions along with expandable FIFOs. These modules are especially useful where high-speed data needs to be captured or output for testing or stimulus/response applications. These include testing and debugging, laboratory automation, manufacturing test, image capture, process monitoring, datasource emulation, and many more which require the need for high-speed parallel data transfer.

For embedded OEM type applications, a miniature USB header is provided in parallel with the type B connector. In addition, the type B USB connector features a high retention design that complies with the class 1, Div II minimum withdrawal requirement of over 3 pounds of force. This connector has an orange color-coded insulator to differentiate it from standard USB connectors. Available accessories for the USB-DIO-16H include a shielded, round-wire molded cable with latching connectors and a 68-pin screw terminal board for quick and easy connectivity.

Key features of the USB-DIO-16H include:

- 16 high-speed digital I/O lines feature continuous, sustained throughput up to 16 MB/s
- Capable of 80 MB/s bursts with flexible synchronous clock and handshaking capabilities
- Continuous streaming over USB with no maximum waveform length
- On-board embedded 128 kByte FIFO memory
- 18 additional digital I/O lines arranged in 4 programmable groups
- All outputs buffered with 24 mA sink/source capabilities
- Type B USB connector features high-retention design
- Standard 68-pin SCSI high density latching connector
- Custom high-speed function driver
- Alternate embedded USB connector
- All required power drawn from USB port, no external power adapter required
- Small, (4" x 4" x 1.25") rugged, steel industrial enclosure
- OEM version (board only) features PC/104 module size and mounting compatibility
- Extended temperature and DIN rail mounting provisions
- Input only, output only, and input/output versions available

The USB-DIO-16H 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-DIO-16H can be integrated into any PC/104, PCI-104, or PCI/104-Express 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-DIO-16H is supported for use in most operating systems and includes a free Linux (including Mac OS X) and Windows 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:**   Starting at $329, depending on model
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> **Availability:**   Now
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> **Delivery:**   Stock to two weeks ARO

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High-Speed USB Digital Waveform Generators