



**\*\* FOR IMMEDIATE RELEASE \*\***

***New Products***

## **Rugged, Industrial-Strength 4-Port Isolated USB Hub Features 4kV Isolation and Extended Temperature Operation**

SAN DIEGO, CA—June 14, 2016—ACCES I/O Products, Inc., is pleased to announce the addition of a rugged, industrial-strength 4-port isolated USB hub to its ever-growing product line of small form factor embedded products—the USB-104-IHUB. This small medical/industrial/military grade hub features Tru-Iso™ signal isolation up to 4kV, extended temperature operation (-40°C to 85°C), high retention USB connectors, and an industrial steel enclosure for shock and vibration mitigation.

The USB-104-IHUB now makes it easy to expand the number of USB ports and provide up to 4kV isolation between the host computer and connected USB peripherals. Applications include factory automation, hospital and medical, energy management, military/mission-critical, transportation, security systems, and process monitoring.

Designed to integrate well in any application, the unit is available in a rugged steel enclosure or OEM as a "board-only" device. Users may choose from two power input connectors: a DC power input jack or screw terminals to provide a full 500mA source at 5V on each of the downstream ports. Additionally, a wide input power option exists to accept from 7VDC to 35VDC. Mounting provisions include DIN rail and various panel mounting plates. Available accessories include an isolated medical-grade power supply and a wide variety of standard USB cables for quick and easy-to-use, out of the box, connectivity. To make use of the miniature embedded USB header connectors, ACCES offers an assortment of embedded micro-fit USB header cables.

The USB-104-IHUB is especially useful in applications where high common-mode external voltages are present. Isolation is required to guard electronics from transient voltage spikes and offers greater common-mode noise rejection in electrically noisy surroundings containing industrial machinery and inductive loads. In addition to protecting applications from the influence of high external voltages, isolation eliminates troublesome ground loops.

### **Key features of the USB-104-IHUB include:**

- **Rugged, industrialized, four-port USB hub**
- **Signal isolation up to 4kV meets EN60601 standards**
- **Advanced EFT, Lightning, and ESD protection at ±20kV on all signal pins (air and contact)**
- **Full-speed USB 2.0 device, USB 3.1 and 1.1 compatible**
- **Industrial operating temperature (-40°C to +85°C)**
- **Two power input connectors (power jack or screw terminals)**
- **LED indicators for power and fault conditions for each downstream port**
- **OEM version (board only) features PC/104 module size and mounting compatibility**
- **Industrial grade USB connectors feature high-retention design**
- **Includes micro-fit embedded USB header connectors in parallel with all standard USB connectors**
- **Small (4" x 4" x 1"), low profile, steel enclosure**

**Software**

No driver installation is required for the USB-104-IHUB. Any USB compliant operating system will automatically install it. It will enumerate as a Generic Hub which uses the USB Hub Class Driver that is built into USB compliant operating systems such as Linux (including Mac OS X) and Windows.

For additional information, readers can view a data sheet and manual for the USB-104-IHUB by visiting the product webpage at [www.accesio.com/USB-104-IHUB](http://www.accesio.com/USB-104-IHUB).

**TRU-ISO™ STATEMENT**

ACCES Tru-Iso™ products are designed under IPC-2221B Generic Standard on Printed Board Design. The circuit is isolated with a  $\geq 300$ mil gap between all signal and plane layers between the upstream port and the downstream ports. This gap is rated under IPC-2221B at a peak working voltage of 1500V (Upstream to Downstream). Our circuit uses a chip-level high-frequency DC-DC isolator which is rated at 5000VRMS for 1 minute under UL 1577 optical isolators standard. This isolation component has an over 50-year isolation lifespan even if the isolation voltage potential is in excess of 846 volts AC. Tru-Iso™ products are also designed to meet the EN60601 medical electrical equipment standard.

**About ACCES I/O Products, Inc.**

For over 25 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 Ethernet, PCI Express, PCI Express Mini Card, USB, USB/104, USB/PICO, PC/104, PCI, Ethernet and ISA, as well as distributed, wireless I/O, and computer-on-module (COM) form factors. 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](http://www.accesio.com).

**Price:** \$295  
Please inquire for OEM and volume pricing

**Availability:** Now

**Delivery:** Stock to two weeks ARO

**For Further Information, Contact:**

Chris Persidok  
Marketing Communications Director  
ACCES I/O Products, Inc.  
10623 Roselle Street, San Diego, CA 92121  
Tel: 858.550.9559 • FAX: 858.550.7322  
E-mail: [cpersidok@accessio.com](mailto:cpersidok@accessio.com)  
URL: [www.accessio.com](http://www.accessio.com)



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