

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

## **8-Channel PC/104 Board Provides Change-of-State Detection, Optically Isolated Digital Inputs, Relay Outputs and Low Cost**

SAN DIEGO, CA—May 3, 2002—ACCES I/O Products, Inc. introduces its Model 104-IIRO-8, a low cost eight-channel PC/104 utility board featuring change-of-state detection and 60V optical isolation on the input lines, and standard Form C SPDT relay outputs. The isolated, non-polarized inputs may be driven by either DC sources of 3-30V (or higher by connecting external resistors in series) or AC sources at frequencies of 50Hz to 10KHz. Optically isolating the digital inputs from each other, and from the motherboard, assures smooth, error-free data transmission even in noisy, real-world environments. 24 channels total are available via one 50-pin header (8 each isolated inputs, TTL inputs and relay outputs).

Each input circuit includes a jumper selectable slow/fast filter that must be activated for AC inputs in order to eliminate zero crossing response. Also useful for slow DC inputs in noisy environments, the filter may be manually switched off to increase the board's typical one-millisecond response time when used with faster DC inputs. All input signals are rectified by diodes before input to the opto-isolators. Current limiting is provided by a 2K Ohm, 1/2-Watt resistor in series.

The Model 104-IIRO-8 board is installed by jumper selecting base addresses and IRQ. System interrupts are enabled and disabled by utility software (included), signaling the board to generate an interrupt whenever one or more of the isolated digital inputs changes state. Once an interrupt has been generated and serviced, the board's inputs are read to determine their status, then the interrupt is cleared by system software. This eliminates the need for constant polling and *greatly* frees up system resources. Eight buffered general-purpose TTL inputs, useful for reading dry contact closures or any TTL-compatible outputs, are also provided.

The Model 104-IIRO-8 board provides eight electromechanical relay outputs on channels 0-7. Consisting of UL and CSA-approved, Form C SPDT type, all outputs are de-energized at system power-up to prevent generating an unintended control output signal. Data to the relays are latched.

The Model 104-IIRO-8 isolated digital input and relay output board is designed for use in industrial environments of 0-50C and 0-90% relative humidity (non-condensing). The board may be installed in any standard PC/104 motherboard slot, and is available with optional cable (CAB50F-6, \$30), screw termination board (STB-50, \$45) and snaptrack for mounting the screw termination board (\$10).

The board comes with a CD containing utility software, an illustrated set-up program for configuring jumpers, and card-specific demonstrations in a variety of languages for programming the relay outputs, reading the inputs, and implementing the change-of-state interrupt feature. Utility software is also available on 3.5" floppy disk.

ACCES I/O Products, a leading manufacturer of IBM-compatible analog and digital I/O boards, remote data acquisition products and accessories, has broadened its offering by adding a growing PC/104 I/O line. ACCES also offers the industry's most complete selection of PCI bus data acquisition cards, with more than 40 models to choose from. All come with a 30-day, no-risk return policy and a three-year warranty. For further information, visit the company's web site at [www.accessio.com](http://www.accessio.com).

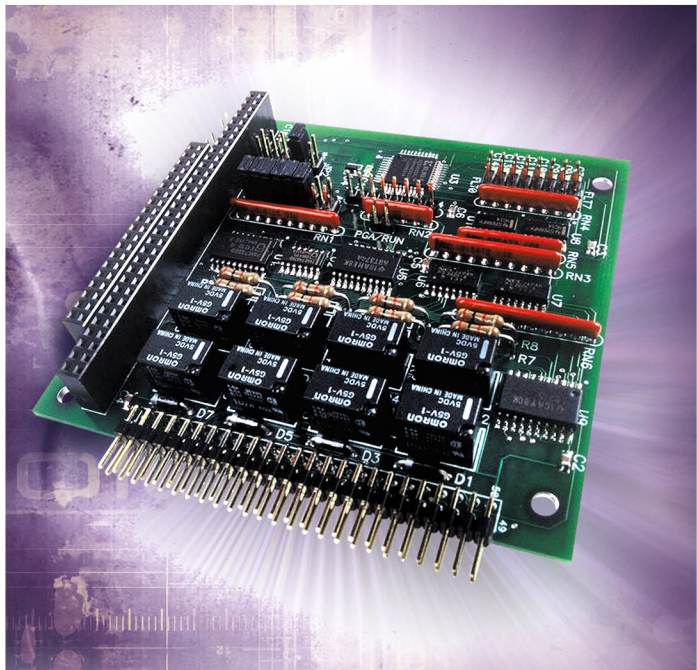
**Price:** \$180, includes software and manual  
**Availability:** Now  
**Delivery:** Stock to two weeks ARO

### For Further Information, Contact:

Marty J. Wingett or Marc Kryjewski,  
Regional Sales Managers  
ACCES I/O Products, Inc.  
10623 Roselle Street • San Diego, CA 92121  
Tel: 858.550.9559 • Fax: 858.550.7322  
E-mail: [mwingett@accessio.com](mailto:mwingett@accessio.com) • [mkryjewski@accessio.com](mailto:mkryjewski@accessio.com)  
URL: [www.accessio.com](http://www.accessio.com)

### Agency Contact:

Welcomm, Inc.  
7975 Raytheon Rd Ste 340  
Tel: 858.279.2100  
Fax: 858.279.5400  
URL: [www.welcomm.com](http://www.welcomm.com)  
E-mail: [mike@welcomm.com](mailto:mike@welcomm.com)  
Attn: Mike Gerow, PR Director



**8-Channel PC/104 Board Provides Change-of-State Detection,  
Optically Isolated Digital Inputs, Relay Outputs and Low Cost  
(104-IIRO-8)**