



**FOR RELEASE:
IMMEDIATELY**

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TIDAL EXPANDS ADAIO SERIES OF ANALOG I/O MODULES

Randolph, NJ, June 13, 2001...Two new modules have just been added to Tidal Engineering's ADAIO family of precision analog I/O expansion solutions for embedded applications. These compact and versatile microcontroller-based devices provide both analog input and output, and employ the I²C Bus (Inter-Integrated Circuit). The TE1313 and TE1243 modules provide one digital-to- analog output channel with resolutions of 16 bits and 12 bits respectively, and one 16-bit bipolar/unipolar analog-to-digital input channel with an input range from 0.1 to +/- 10 VDC.

Providing industrial I/O with modular flexibility, devices boast a 2.87" (L) x 0.75" (W) x 0.7" (H) space-saving design. The units are specifically engineered to mount directly to Tidal's full line of embedded IEEE 488 single board computers, enhancing their I/O capability. Most commonly used with Tidal's SBC448A to provide a flexible instrument development platform, modules are equally suitable as standalone devices in a wide range of data acquisition and measurement applications including signal measurement and process control.

The TE1313 and TE1243 provide optically isolated data, with up to 1000 V of

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optical isolation, and an onboard DC/DC converter to eliminate the need for a second isolated power. Their DAC Full Scale (FS) output range is selectable for 1.0 V FS, 5.0 V FS and 10.0 VDC, while the units' microcontrollers provide median filtering for the ADC. Conversion time is a fast 4 milliseconds. Modules' operating temperature range is 0° to 50° C, and power requirement is 5 VDC @ 50 mA. Tidal further offers ADAIO modules with 12-bit DACs and a wide range of analog-to-digital converters.

Prices start at \$150. each for the TE1243 (12-bit), and \$180. each for the TE1313 (16-bit). Delivery is from stock to 6 weeks.

Headquartered in Randolph, NJ, Tidal Engineering Corporation has been designing and building award-winning embedded hardware and software for test and measurement and data acquisition applications since 1992. The company further provides product development services together with engineering support, and is recognized for technical expertise in such areas as Embedded IEEE 488, and turnkey SCADA (Supervisory Control and Data Acquisition) systems. Tidal's products are available exclusively through ADI American Distributors Inc., an ISO-9002 certified distributor of electronic and electro-mechanical components and assemblies.

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