



**FOR RELEASE: IMMEDIATELY**

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**TIDAL'S NEW SINGLE BOARD COMPUTER OFFERS EXTENSIVE I/O  
INCLUDING 24-BIT A/D CONVERSION**

*Olympic488 SBC Designed for Low Cost,  
Rapid Development of GPIB Test & Measurement Products*

Randolph, NJ, August 21, 2001...Tidal Engineering today announced the expansion of its growing embedded IEEE 488 product offering to include the Olympic488. A high-performance, single-board computer (SBC) loaded with I/O, memory, and communication ports, the Olympic488 is uniquely engineered to provide manufacturers of test and measurement products with flexible rapid development capabilities for demanding applications. With the addition of a precision multi-channel 24-bit Sigma-Delta analog-to-digital converter (ADC) the Olympic488 satisfies the requirements of many new high-accuracy instruments and systems. This new SBC supports an integrated C programming environment to offer the utmost in application flexibility, as well as the ability to create real-time applications. Further, it boasts an IEEE General Purpose Interface Bus (GPIB) controller to help OEMs trim development costs and speed time-to-market.

The Olympic488 is engineered as a low-cost turnkey solution for a wide range of precision power supply, RF test equipment, and laboratory instrument applications. This full-featured board is ideally suited for a wide range of applications where IEEE 488, RS-232/RS-485 control is required, and is frequently found in varied test environments. Often used to control such devices as RF single analyzers and switching arrays, the Olympic488 is further specified for use in the control of digital voltmeters, data loggers and programmable power supplies.

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Powered by the Rabbit 2000 microprocessor operating at 22.12 MHz, it has EEPROM, 128K of flash memory and 128K of SRAM for program and data storage. The new SBC additionally features four RS-232/485 serial ports, two onboard relays, and a battery-backed Real Time Clock (RTC). Moreover, 32 digital outputs, 16 digital inputs, an eight channel 24-bit Sigma-Delta analog-to-digital converter (ADC), an eight channel 12-bit ADC, and two 12-bit digital-to-analog converters (DACs) are included. Signal conditioning is provided on board for precision temperature measurement using Pt 100-ohm RTDs (Resistance Temperature Device). The board's IEEE 488 interface provides talker, listener and controller functions. Measuring 5.5" x 6.0", the Olympic488's power requirement is 5 W at 7 to 24 VDC. Custom analog I/O, LCDs, keypads, and software are offered.

In 25-unit quantities, Tidal's Olympic488 SBC is priced at \$475 each. Delivery is from stock to 4 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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