



New Rad-Tolerant SBC from Aitech Offers Flexible, Power-Saving Features Coupled with High Performance Processing

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Aitech Defense Systems Inc. now offers a high-performance, single-slot single board computer (SBC) that allows the user to initiate different power-saving options, depending on application requirements.

PR9.NET February 14, 2008 - Chatsworth, Calif. – Aitech Defense Systems Inc., the world's first and largest independent manufacturer of open architecture board and subsystem level products for harsh environment defense, aerospace and astronautics applications, now offers a high-performance, single-slot single board computer (SBC) that allows the user to initiate different power-saving options, depending on application requirements.

Specifically designed for mission-critical space environments, the new 3U CompactPCI radiation-tolerant S950 functions using as little as 13.5 W in full operation, less than 8 W in nap mode and less than 10 W with limited performance for less intense processing requirements, all based on a core processor speed of 733 MHz.

The S950 offers extreme protection against single event upsets (SEUs) making it ideal for a variety of low earth orbit (LEO), Mars terrestrial and geocentric orbit (GEO) applications including redundant mission computers and guidance and navigation computers as well as in command and data handling computers, solid-state recorders and video controllers.

The board incorporates the low power PowerPC™ 750FX Processor with a maximum power dissipation of less than 8 W, 128 MBytes of SDRAM arranged in a bit-wise triple voting architecture and 1 MBytes of dual-redundant boot Flash to store the onboard Boot firmware. The 32 kBytes L1 cache includes a parity check for both tags and data, while the 512 kBytes L2 cache provides a parity check on tags and ECC protection on data.

A rad-tolerant anti-fuse FPGA maintains the memory controller to ensure data integrity for secure system reliability in harsh space environments. Also implemented on the FPGA is additional ECC protection for the board's 64 MBytes of user Flash memory, which ensures sufficient memory resources for a variety of applications, as well as two standard serial ports, four independent 32-bit counters/timers, an onboard hardware watchdog timer, a 32-bit conduction-cooled PMC site and a 32-bit CompactPCI interface operating at 33.333 MHz.

Pricing for the S950 starts at \$24,200. Delivery is from stock to 16 weeks ARO.

For more information please call 888-Aitech-8 (248-3248), visit www.rugged.com, or e-mail sales@rugged.com.

For an electronic copy, please visit <http://www.simongroup.com/PressRoom/WordDocs/ait/AIT-A-1472.doc>

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About Aitech Defense Systems, Inc.

Established in 1983, Aitech offers military and space-qualified, commercial off-the-shelf (COTS) embedded computing products for rugged defense, aerospace and astronautics (space) applications as well as provides radiation tolerant and full MIL-SPEC solutions. The company provides industry-standard, open architecture VMEbus, CompactPCI and high speed serial fabric-based boards, power subsystems, mass memory, enclosures and hardware subsystem integration along with logistics, configuration control, component obsolescence and earned-value management services.

About The Simon Group

The Simon Group, an award-winning, full service business-to-business marcom agency specializing in high tech and industrial accounts.

Phone: 215-453-8700
Website: <http://www.simongroup.com>
Address: The Simon Group
1506 Old Bethlehem Pike
Sellersville, PA 18960

