



## **WORLD'S HIGHEST-PERFORMANCE RAD-HARD PowerPC™ PROCESSOR READY FOR SPACE**

### ***Broad Reach Engineering Completes Development of BRE440 CPU***

TEMPE, AZ (January 28, 2010) – Broad Reach Engineering today announced completion of development and delivery of the aerospace industry's highest-performance radiation-hardened microprocessor.

“The Rad-Hard BRE440 PowerPC CPU is fully developed, in stock and ready to serve in radiation-rich environments ranging from on-orbit and interplanetary space to nuclear, defense and medical applications,” said Broad Reach CEO Chris McCormick. “With its combination of memory controllers, Ethernet, high speed and low power consumption, the BRE440 chip represents one of the most significant system-on-a-chip advancements for space flight in more than a decade, and is poised to enable a new generation in high-reliability processing solutions. We are currently using this chip on our next-generation GPS receivers and our Mirideon 3U single board computer.”

The device is built on Honeywell's rad-hard HX5000 150nm SOI process and is based on a PowerPC 440 core licensed from IBM. The BRE440 processor design includes on-chip floating point unit, memory controllers, L2 cache, two Ethernet ports, two serial ports, four DMA channels, DDR DRAM controller with EDAC, and PCI interface. Speed is configurable up to 133MHz and is 2 MIPS/MHz.

#### **About Broad Reach Engineering**

Broad Reach Engineering produces spaceflight hardware and software solutions, integrating vehicle design, component design and engineering services for aerospace, scientific, commercial and military customers on four continents and for global space centers and contractors. The company's radiation-hardened avionics and electronics product lines include the next-generation BRE440 “system-on-a-chip” – the world's highest-performance radiation-hardened microprocessor. Founded in 1997, the company has office and laboratory locations in Tempe, Ariz., and Golden, Colo. For more information, please visit [www.broadreachengineering.com](http://www.broadreachengineering.com).

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