

Atmelmicroprocessors Products Family

Guy MANTELET

ATMEL Nantes – La Chantreterie – 44306 NANTES Cedex 3

E-mail: guy.mantelet@atmel.com

The paper presents the status of the microprocessors products available at ATMEL and the microprocessors and microcontroller roadmap for space applications.

This includes for Microcontrollers currently used in space applications the 8-bit microcontroller 80C32 and for the microprocessors the TSC695F (ERC32single-Chip).

The Ongoing activities and results for AT697E and AT697F microprocessors. The AT697E and the AT697F are highly integrated, and high-performance 32-bit RISC embedded processor based on the SPARC V8 architecture. Their implementation are based on the European Space Agency (ESA) LEON2 fault tolerant model. These processors are manufactured using the ATMEL 0.18 μ m technology (AT58K). The performance of the processor reaches 86 MIPS @100MHz, and the power consumption has been measured at 7 mW/MHz.

The presentation will show the main features, performances, TID and the SEE results. It will also cover the remaining