FPSLIC™

STK594 Development Kit

Glue some Logic on your favorite AVR® Microcontroller

Atmel offers a very low-cost development kit for the AVR designer who wishes to begin working with the award-winning FPSLIC (AT94K) family of devices. The STK594 kit is an expansion module designed to add FPSLIC support to the Atmel STK500 Development Board.

The kit allows designers to design, simulate, synthesize and program Atmel's FPSLIC devices. The STK594 includes hardware allowing full support for the new features found on the FPSLIC devices. An additional RS-232 driver, a 32 kHz Real-Time Clock and a Two-Wire Serial Interface are among the new features. The development kit includes everything needed to design with FPSLIC, including all hardware, software, a user guide and tutorials. The STK594 kit consists of a development kit board, which includes the following features:

- STK500 Compatibility
- AT94K10AL and AT17FS10 Devices
- Access to All FPSLIC Pins via Headers
- Additional RS-232 Driver and Connector
- On-Board 32 kHz Clock Oscillator for Easy Real-Time Clock Implementations
- JTAG Header for On-Chip Debugging using the JTAG ICE
- The System Designer Software Suite with a Four-month License
- ATDH2225 In-System Programming Cable
- Comprehensive User Guide and Tutorial

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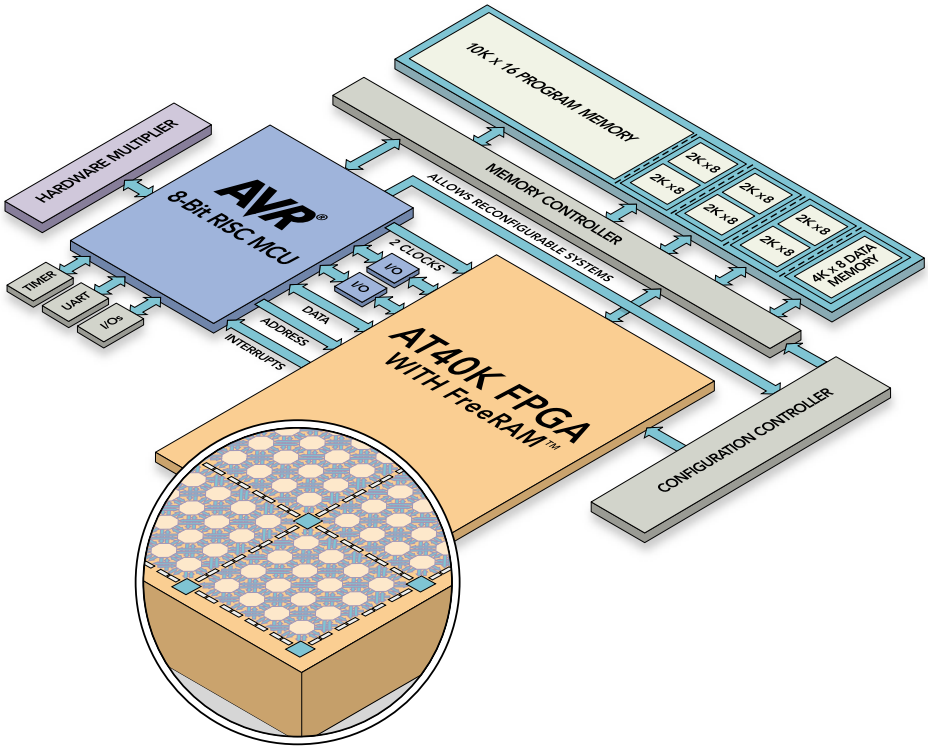

The FPSLIC family of devices incorporates up to 40,000 gates of patented AT40K FPGA, 36 Kbytes of SRAM, and a 20 MIPS AVR RISC microcontroller core with a fixed peripheral set on a monolithic device. For the first time, all the components of a typical system are available in a high-performance field programmable device.

Atmel has solved the software problems of system integration, debugging and testing, by providing a complete system development environment. Co-verification tools allow for concurrent hardware and software development and debugging. Design problems are quickly identified early in the design process and can be fixed easily, minimizing their impact on project schedules.

By combining industry-standard development tools and tried-and-tested design methodology, the System Designer software is a system architect's dream. Atmel has taken mature tools and combined them with standard third-party design entry and verification tools to provide the ideal environment for rapid, bug-free development and "what if" analysis:

- Make trade-off analysis between software and hardware implementations of an algorithm.
- Save power by running complex DSP functions in a FPGA instead of software. Reconfigure the FPGA on-the-fly from the microcontroller to update your latest encryption algorithm.
- Create your project with the embedded interfaces and peripherals needed to make your designs fly.

Ordering Information for the STK594 Development Kit

The low-cost development kit is available from any of Atmel's franchised distributors. The ordering code is **ATSTK594**.