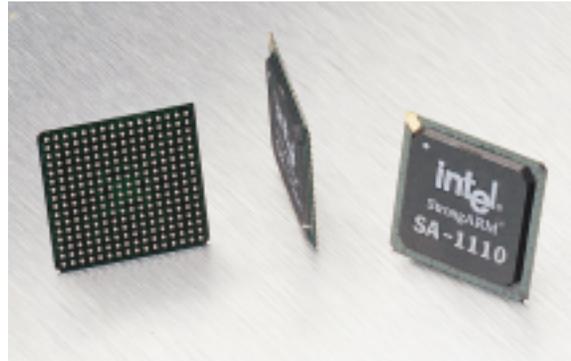


## Intel® StrongARM® SA-1110 High-Performance, Low-Power Processor For Portable Applied Computing Devices

### PRODUCT HIGHLIGHTS

- **Innovative Application Specific Standard Product (ASSP) delivers leadership performance, integration and low power for palm-size devices, PC companions, smart phones and other emerging portable applied computing devices**
- **High-speed 100 MHz memory bus and a flexible memory controller that adds support for SDRAM, SMROM, and variable-latency I/O devices — provides design flexibility, scalability and high memory bandwidth**
- **Rich development environment enables leading edge products while reducing time-to-market**



*As businesses and individuals rely increasingly on portable applied computing devices to simplify their lives and boost their productivity, these devices have to perform more complex functions quickly and efficiently. To satisfy ever-increasing customer demands to communicate and access information 'anytime, anywhere', manufacturers need technologies that deliver high-performance, robust functionality and versatility while meeting the small-size and low-power restrictions of portable, battery-operated products. Intel designed the SA-1110 processor with all of these requirements in mind.*

The Intel® SA-1110 is a highly integrated 32-bit StrongARM® processor that incorporates Intel design and process technology along with the power efficiency of the ARM\* architecture. The SA-1110 is software compatible with the ARM V4 architecture while utilizing a high-performance micro-architecture that is optimized to take advantage of Intel process technology.

The Intel SA-1110 provides the performance, low power, integration and cost benefits of the Intel SA-1100 processor plus a high speed memory bus, flexible memory controller and the ability to handle variable-latency I/O devices. Manufacturers who utilize the cost-effective SA-1110 ASSP benefit from this high-value feature set, which is complemented by a robust development environment that speeds time-to-market.

### 'SYSTEM ON A CHIP' INTEGRATION DELIVERS COST-EFFECTIVE SOLUTIONS

The Intel SA-1110 processor consists of:

- **Processing Core** - the processor is the Intel SA-1 core with a 16-Kbyte instruction and 8-Kbyte data cache, memory-management units, read and write buffers and a 512-byte mini-data cache that can be utilized to enhance caching performance when dealing with frequently used data structures
- **Memory and PCMCIA Control Module** - flexible memory controller supporting SDRAM, Synchronous Mask ROM, ROM, Flash, DRAM, SRAM, SRAM-like variable-latency I/O and PCMCIA control signals

