New Embedded Processors To Be Foundation For Devices From The Car To The Factory Floor

February 22 2005

Intel Corporation announced that recently introduced processors and a corresponding chipset are now available for embedded market segments such as communications infrastructure, industrial box and panel PCs and in-car infotainment. Today's announcement demonstrates Intel's commitment to provide modular standards-based building blocks such as embedded processors to a wide variety of industries in addition to providing cost-effective and faster time to market solutions.

Intel's processors are used in a vast array of embedded designs that require high-performance, low-power consumption and extended lifecycle support. The new processors are some of the highest-performing, lower-power processors for the embedded market segments and the chipset features improved integrated graphics. Developers designing with these embedded processors and corresponding chipset will find they are well suited for small form factor designs such as the new COM (computer-on-module) Express form factor specifications that deliver high performance and I/O density for embedded applications.

The introductions today include the Intel® Pentium® M Processor 760 and Mobile Intel® 915GM Express Chipset, Intel® Celeron® M Processor 370 and Intel® Celeron® M Processor Ultra Low Voltage 373.

"By choosing Intel's embedded processors developers can increase performance while meeting their ever-challenging power concerns and still build flexible solutions that provide a rapid time to market cost effectively," said Doug Davis, vice president, Digital Enterprise Group, general manager of Intel's Infrastructure Processor Division.

Siemens chose to design in the Intel Pentium M Processor 760 and corresponding chipset because of the engineering flexibility and lower cost it provides for their rugged industrial Simatic Box PC 627 and Panel PC 677 along with a long product life cycle. "The low thermal envelope allowed a more compact cooling solution and the integrated graphics functionality provided by the chipset decreased system cost by not requiring the use of a graphics card," said Gunther Klima, head of Industrial PC Division, Siemens Automation and Drives Group. "In addition, the new technology supports our target to offer high-system availability for our products."

E.E.P.D., which manufacturers single board computers, will be upgrading its Envader IV series targeted for in-car infotainment systems with the Intel Pentium M Processor 760 and Mobile Intel 915GM Express Chipset, providing in-car computing and Internet access for business and entertainment. E.E.P.D. currently uses Intel's embedded processors in the Envader III series which provides in-car infotainment for BMW M. The move to the new processor and chipset will improve graphics and reduce cost by eliminating the need for a graphics card.

Pricing and Availability

The Intel Pentium M Processor 760 is priced at $415 at 10,000-unit quantities. The Mobile Intel 915GM Express chipset is priced at $41 in 25,000-unit quantities. The Intel Celeron M Processor 370 is priced at $131 at 10,000-unit quantities. The Intel Celeron M Processor ULV 373 is priced at $158 at 10,000-unit quantities. All these components are currently available for purchase. A development kit based on the new

chipset will be available in early March.

Citation: New Embedded Processors To Be Foundation For Devices From The Car To The Factory Floor (2005, February 22) retrieved 24 April 2024 from https://phys.org/news/2005-02-embedded-processors-foundation-devices-car.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.