

# Intel Delivers Next-Generation Processors For Embedded Market Segments

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## **Devices Extend High-Performance and Low-Power Processing to Communications Infrastructure, Multimedia and Other Embedded Applications**

COMPUTEX, TAIPEI, Taiwan, June 2, 2004 -- Intel Corporation today announced that three of its recently introduced processors are now available to support communications infrastructure, multimedia and products for other embedded market segments. Today's announcement helps accelerate the industry's move to modular standards-based building blocks by providing a wide range of technologies that serves as the foundation for more innovative, cost-effective embedded applications.

Embedded Intel processors are commonly used in designs that possess long product lifecycles and require high-performance, low-power consumption. The new processors are some of the highest-performing processors for the embedded market segments and feature Intel SpeedStep® technology. This technology enables significant power savings by intelligently managing voltage and frequency changes.

"By choosing such standardized building blocks as the processors introduced today, developers can accelerate their time to market on a broad range of products and solutions" said Tom Franz, vice president and general manager of Intel's Communications Infrastructure Group.

The processors include the Intel® Pentium® M processor 745 (formerly code named Dothan), Ultra Low Voltage (ULV) Intel® Celeron® M processor and the Intel® PXA270 processor for embedded computing.

**Intel Pentium M Processor 745 for the Communications Infrastructure**  
For customers requiring extended product lifecycles, the Intel Pentium M processor 745 based on Intel's mobile micro-architecture boosts performance by up to 17 percent\*\* (as compared with the previous-generation processor), with 2 MB of integrated, power-managed Level 2 (L2) cache, micro-architectural enhancements and frequencies at 1.8 GHz. The Intel Pentium M processor 745 addresses the power and performance requirements for a range of wireline and wireless infrastructure solutions, and is well suited for Advanced Telecom Computing Architecture (ATCA) board designs. Embedded market segments such as POS terminals and industrial computing are also applicable for this processor.

**Intel Celeron M processor for telecommunications**

With the lowest power consumption available among Intel Celeron M processors, the ULV Intel Celeron M processor at 600 MHz is the targeted solution for developers of small form factor designs that do not

require fans for cooling. Wireless and wireline infrastructure segments, including those that use mezzanine cards, and embedded market segments will benefit from the ULV Intel Celeron M processor.

Both the Intel Pentium M 745 and Intel Celeron M processors offer socket-level compatibility with each other and the previous generation of processors, allowing developers to design a broader range of products.

### Intel PXA270 Processor for Embedded Computing

The Intel PXA270 processors add a number of new technologies to address the needs of developers designing such graphics-rich applications as personal media players, navigation devices and handheld POS terminals. Based on Intel XScale® technology, the PXA270 is the first embedded communications product to integrate the Intel Wireless MMX™ technology, providing additional performance for 3-D games and advanced video while improving battery-life. Intel has also incorporated Intel Quick Capture technology to support full motion video and cameras delivering up to four megapixels of image quality.

The Intel PXA270 processors will offer clock speed ranges of 312MHz, 416 MHz and 520 MHz. The processor is available in two package types: a 0.5mm ball pitch package for small form factors and a 1.0mm ball pitch package for low-cost board manufacturing.

### Pricing and Availability

Intel Pentium M processor 1.8 GHz has a suggested list price of \$415 (U.S.) in 10,000- unit quantities. The ULV Intel Celeron M processor 600 MHz has a suggested list price of \$127 (U.S.) in 10,000-unit quantities. Both are shipping today.

The Intel PXA270 processor for embedded computing is available in sample quantities today, with volume production planned next quarter. Suggested list price for 312 MHz is \$32 (U.S.) in 10,000-unit quantities.

Intel, the world's largest chip maker, is also a leading manufacturer of computer, networking and communications products. Additional information about Intel is available at [www.intel.com/pressroom](http://www.intel.com/pressroom).

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\*\*As compared with the 1.70 GHz Pentium M processor on MobileMark 2002. Source: Intel Corporation Configuration: Intel® Pentium® M Processor 755, Intel® Pentium® M Processor 735, Intel® Pentium® M Processor 1.70 GHz, with Intel® 855PM chipset on IBM\* T41p, BIOS 3.03 C3, 1GB ( 2 X 512 MB ) Micron MT16VDDF6464HG-335C2 PC2700 DDR 333 CL2.5 memory, ATI Mobility Fire GL T2 AGP 4x, 128MB Memory, Graphics driver ATI 6.14.10.6392, Hard drive Hitachi HTS726060M9AT00 7200RPM 60GB, Disk Drive controller Microsoft\* default UDMA-5, Microsoft\* DirectX\* 9.0b, Network Card Intel PRO/1000 driver Intel® 6.4.16.36, Wireless network card driver Intel 1.2.1.1, Battery capacity 72WH, Screen size 14.1", Screen resolution TFT 1400x1050, Screen brightness 30 nits, Weight 3.9 Lbs, Microsoft\* Windows\* XP Professional Build 2600 SP1 on NTFS file system, Portable/Laptop Power Management Mode. Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, visit [www.intel.com/performance/resources/limits.htm](http://www.intel.com/performance/resources/limits.htm).

The original press release find here: [www.intel.com/pressroom/archives/20040601tech.htm](http://www.intel.com/pressroom/archives/20040601tech.htm)

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