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# News Fact Sheet

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## **Intel Offers More Choice for Embedded Applications**

### **Offers 7-Year Extended Life Cycle Support for Atom Processor and Chipset for Embedded**

**Sept. 25, 2008:** Intel Corporation today unveiled its 7-year extended life cycle support for the Intel® Atom™ processor N270 and Mobile Intel® 945GSE Express chipset for embedded customers. This processor and chipset comprise the new Intel® Atom™ platform that delivers low power and performance-per-watt advantages for embedded applications. This follows Intel's announcement in April that it would offer embedded customers a minimum of 7-year life cycle support for the Intel® Atom™ processor Z5xx series.

The N270 processor and 945GSE Express chipset are optimized for the low-power needs of embedded markets such as digital signage, interactive clients, thin clients, digital security, residential gateways, print imaging and industrial control. Details of the processor and chipset as they relate to the embedded market are summarized below.

For more information about Intel Atom, visit [www.intel.com/technology/atom/index.htm](http://www.intel.com/technology/atom/index.htm).



### **Intel® Atom™ processor N270 and Mobile Intel® 945GSE Express chipset**

Following the announcement that Intel would support the Atom Z5xx series, embedded customers now have a choice to design with two different Atom processor-based platforms. The latest Intel Atom processor validated with the Mobile Intel 945GSE Express chipset is ideal for embedded developers who want to use a lower power Intel® architecture (IA) processor such as the Atom Z5xx series, but also require flexible I/O capabilities such as PCI, SATA, and SPI, and need graphics capabilities for larger displays.

The Atom processor N270-based platform provides embedded customers designing entry-level applications with more design choices based on their various performance, graphics, price and power consumption needs. Customers already using low-power IA processors such as the Intel®

Celeron® M processor ULV can now enjoy significant improvement in CPU performance-per-watt.

### ***Low Power and Performance-per-watt***

The Intel Atom processor N270 operates on ground-breaking high-k metal gate 45nm silicon technology and features a 1.6 GHz core speed with 2.5 watts thermal design power. The N270 processor features Hyper-Threading (HT) Technology,<sup>1</sup> providing high performance-per-watt efficiency and increased system responsiveness in multi-tasking environments. With HT Technology, one execution core is seen as two logical processors, and parallel threads are executed on a single core with shared resources.

Enhanced Intel SpeedStep® Technology is also included in the processor that helps reduce average system power consumption. The Atom N270 processor with 945GSE chipset platform has a combined TDP between 8 to 11 watts depending on end user configuration in embedded applications.

### ***Power-Efficient Graphics and Rich I/O***

The 945GSE Express chipset features an integrated 32-bit 3-D graphics engine based on Intel® Graphics Media Accelerator architecture, dual independent display support at graphics core speeds up to 166 MHz, and graphics interfaces such as single-channel SDVO, VGA, dual-channel LVDS and analog TV-out that support multiple graphics display options. The chipset also provides flexible I/O capabilities such as PCI, SATA and SPI as well as a LAN Connect Interface (LCI) that enables flexible network solutions such as 10/100 Mb/s Ethernet and 10/100 Mb/s Ethernet with LAN manageability.

### ***Choice***

Embedded developers now have a choice to design with two different Intel Atom processor-based platforms:

- The Atom N270 with 945GSE chipset platform for embedded customers designing entry-level applications needing flexible I/O capabilities and sophisticated graphics capabilities for larger displays.
- The Atom Z5xx series with US15W chipset platform for embedded developers wanting low power IA in small packages and needing graphics requirements to drive small screens typically found in SFF applications.

### **Pricing and Availability**

Samples of N270 processor and 945GSE chipset are available to embedded customers today. The N270 processor costs \$44 in 1,000-unit quantities and the Intel 945GSE Express chipset costs \$39 in 1,000-unit quantities.

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<sup>1</sup>Hyper-Threading Technology (HT Technology) requires a computer system with an Intel processor supporting HT Technology, and an HT Technology-enabled chipset, BIOS and operating system. Performance will vary depending on the specific hardware and software used. See [www.intel.com/info/hyperthreading/](http://www.intel.com/info/hyperthreading/) for more information including details on which processors support HT Technology.