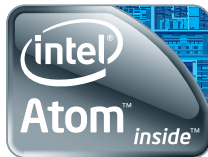


Intel® Atom™ Processor



Product Overview

Available for netbooks, the Intel® Atom™ processor delivers unmatched capabilities in a small package for today's on-the-go consumers. Take Internet connectivity to more places and easily access the Web, e-mail, news, chat, videos, photos, and music—wherever you go.

The Intel® Atom™ Processor— Purpose-Built for Netbooks

The Intel Atom processor is designed to enable affordable netbooks for basic computing and Internet access. It delivers amazing capabilities, allowing sleek and innovative netbook form factors that represent who you are. A netbook is great for a variety of consumers—as an introductory computer for children, tweens, on-the-go

momms, or anyone needing a sleek and innovative form factor. Take the Internet with you in a more lightweight, practical, and convenient package. Stay unplugged longer thanks to an energy-efficient processor designed for a longer battery life. Do more things on the Internet, and whether you are at home or away, enjoy Internet access with a compact netbook at an affordable price. Photos, videos, and other content can be synced across devices and shared wirelessly on your TV. It's ready when you are and has the performance to deliver a great Internet experience.

The Intel Atom processor, combined with the Intel® NM10 Express Chipset, offers best-in-class capabilities and supports both Windows* and MeeGo/Tizen* operating systems¹ so you can get online, have fun, and get things done.

With the Intel® Atom™ processor N2000 series, enjoy Internet access on the go with a more responsive consumer experience and even longer battery life than the previous generation.

Platform Enhancements

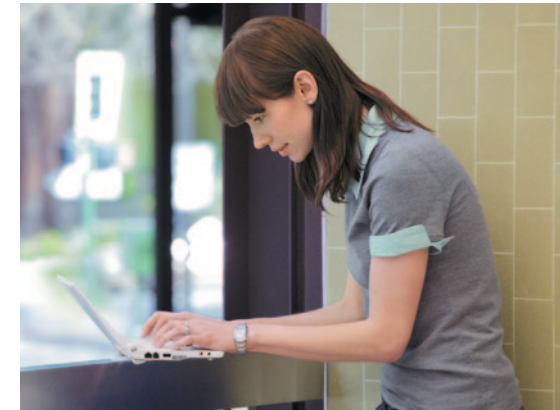
- **Enhanced graphics and video 1080p:** Full HD-decode (MPEG2, VC1, AVC, H.264) and Blu-ray* 2.0 support
- **Improved display options:** HDMI*, DisplayPort*, eDisplayPort*, LVDS, VGA, and dual-digital display
- **Increased performance:** Faster memory and higher GHz
- **Lower power:** Enables fanless designs and longer battery life



Intel® Atom™ Processor for Netbooks

Intel® Atom™ Processor for Netbooks		
	INTEL® ATOM™ PROCESSOR N2800 (DESIGNED FOR PERFORMANCE)	INTEL® ATOM™ PROCESSOR N2600 (DESIGNED FOR FANLESS)
Processor Frequency	1.86 GHz	1.60 GHz
Number of Cores / Threads	2 / 4	2 / 4
Intel® Smart Cache	2 x 512 KB L2	2 x 512 KB L2
Graphics	Intel® Graphics Media Accelerator 3650	Intel® Graphics Media Accelerator 3600
Integrated Memory Controller	Yes	Yes
Memory Support	Single-channel DDR3 1066 MHz	Single-channel DDR3 800 MHz
Processor Manufacturing Process	32nm	32nm
Processor Package Size	22mm x 22mm	22mm x 22mm
Intel® Express Chipset	NM10	NM10
Chipset Package Size	17mm x 17mm	17mm x 17mm

Features and Benefits of the Intel® Atom™ Processor for Netbooks	
Feature	Benefit
Intel® Atom™ Microarchitecture and 32nm Process Manufacturing Technology	A purpose-built, low-power processor that delivers an affordable basic computing experience.
Small Form Factor Processor Package Size	The lead-free ² , halogen-free ³ Micro-Flip Chip package is 60 percent smaller in netbooks (22mm x 22mm) than a notebook processor (35mm x 35mm). This saves system board real estate in a much thinner and smaller industrial design, enabling small form factors.
Intel® Rapid Start Technology	Alternative standby mode using flash-based storage allows fast resume and enables longer standby battery life, with faster access to Internet, data, and applications.
Intel® Deeper Sleep (C6)	Saves power by flushing cache data to system memory during periods of inactivity to reduce power consumption and enable longer battery life.
Enhanced Intel SpeedStep® Technology	Multiple voltage and frequency operating points provide optimal performance at the lowest power. This allows for better matching of performance to application demand.
Low Thermal Design Power (TDP)	Low TDP enables thinner, lighter, more compact and portable netbooks by reducing the cooling requirements.
Enhanced Data Prefetcher and Enhanced Register Access Manager	Anticipates data the processor is likely to need and stores the information within the processor's L2 cache, resulting in improved performance because the processor doesn't have to wait as long for data.
Intel® Smart Cache	Cache and bus design for efficient data sharing, providing enhanced performance, responsiveness, and power savings.
Integrated Graphics and Memory Controller	Integrated Intel® Graphics Media Accelerator 3650 and 3600 combined with the integrated memory controller provides enhanced performance and system responsiveness.
Support for Windows* and MeeGo/Tizen* Operating Systems	Choice of operating systems for your netbook.
Lower Power Consumption Over Previous Generation	Allows consumers to stay on the go for longer periods of time.
Support for Wi-Fi*, WiMAX*, and 3G Communication	Consumer choice and flexibility for online access inside and outside the home.



The Intel® Atom™ processor is designed to enable affordable netbooks for basic computing and Internet access.

¹ Supported operating systems include MeeGo/Tizen* and Microsoft Windows*.

² Intel® 32nm products are manufactured on a lead-free process, per EU RoHS Directive (2002/95/EC, Annex A). Some RoHS exemptions may apply to other components used in the product package.

³ Applies to components containing flame retardants and PVC only. Halogens are below 900 PPM bromine, 900 PPM chlorine, and 1500 PPM combined bromine and chlorine.

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