

Mobile Intel® Pentium® III Processors Featuring Intel® SpeedStep™ Technology



No Compromise Portability, Performance and Power Management

Today's fast-paced lifestyles demand highly portable computing power to support dynamic work environments, convenience and productivity. Meeting these needs, Intel offers new mobile Intel® Pentium® III processors at 850 MHz and 800 MHz featuring Intel® SpeedStep™ technology, which combines fast processing performance with greater power-management flexibility. You can run the most complex business and Internet applications with speed virtually identical to a desktop system, and you can choose how to best balance performance and battery life.

On AC power, Intel Pentium III processor-based mobile PCs run at 850 MHz, 800 MHz, 750 MHz, 700 MHz, 650 MHz or 600 MHz. On battery power, these processors reduce speed to conserve battery life. For example, a mobile PC that runs at 850 MHz will automatically drop to 700 MHz when on battery power, while still achieving 80% of maximum performance. A manual override allows you to shift the frequency back to 850 MHz, so you can customize performance to suit the application and your strategic needs. Anytime, anywhere.

Delivering high performance across all mobile PC segments

The low power mobile Pentium III processor 600 MHz features Intel SpeedStep technology and ultra low voltage operation. The processor operates on only 1.1 volts and consumes less than 1 watt of average power in Battery Optimized Mode, bringing high performance to ultra-portable PCs weighing less than three pounds and measuring only about one inch in height. Many of today's leading ultra-portable PCs offer the performance and familiarity of traditional desktop systems in form factors that enable computing productivity, Internet connectivity and e-Business anytime, anywhere.



Key benefits:

- 850, 800, 750, 700, 650, and low-voltage 600 MHz based-processors featuring Intel® SpeedStep™ technology.
- QuickStart technology allows the processor to work at lower wattage, while idling between tasks, to extend battery life.
- New 0.18-micron process technology provides faster computing speeds and lower power requirements.
- 100-MHz processor system bus performance enables faster access to memory and data.
- Advanced Transfer Cache with 256K full-speed, on-die L2 cache enhances performance
- More than 70 Internet Streaming Single Instruction Multiple Data (SIMD) Extensions heighten streaming multimedia performance and graphics applications on and off the Internet.
- Micro PGA and BGA packaging make possible the thinnest, lightest mobile PCs at affordable prices.
- Compatible with Windows® 98, Windows NT®, Windows® 2000 and Windows® Me.

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High-performance e-Business on a mobile PC

Conducting e-Business requires a high-performance system. A mobile Intel Pentium III processor running at 850 MHz offers a 29% to 52% performance improvement over a mobile Intel Pentium III processor running at 500MHz on most industry benchmarks.*

With a mobile Intel Pentium III processor-based 850-MHz system featuring Intel SpeedStep technology, you get fast access to the Internet and to your company intranet. You can e-mail, transfer data and text files, analyze spreadsheets and manage inventory online while traveling. With new wireless data capabilities offered through cellular service providers, a mobile PC is also an ideal tool for accessing rich, robust Internet content wirelessly. A Pentium III processor-based mobile PC is the perfect system for e-Commerce and e-Business.

Mobile Intel Pentium III processors provide room to grow

Performance headroom for emerging—and demanding—software protects your investment. When selecting a mobile Intel Pentium III processor featuring Intel SpeedStep technology for business, student or home use, you can choose from a broad array of sizes and high-performance systems at affordable prices.

Command and engage the power of the Internet anytime, anywhere

Learn, play, shop and communicate on the Internet. With a wireless or phone line connection, review real-time stock quotes on your lunch hour, or make movie and dinner reservations while you commute. Log on and chat with friends, view live sporting events, or take part in distance learning or a personal support forum. Do you enjoy computer gaming? The mobile Intel Pentium III processor's performance leap to 850 MHz results in more realistic game images and faster game speeds.

Internet Streaming SIMD Extensions heighten streaming multimedia performance and graphics applications. This innovative technology enables rich graphics, video and audio capabilities on and off the Internet.

Imagine a richer Internet life on a powerful mobile PC, with computing performance and battery life that can keep up with you.

Going mobile is easier than ever with Intel SpeedStep technology

Expand and extend your business and Internet communications with rich graphics, 3D images, streaming video and digital sound. Enjoy maximum performance and optimized battery life with an affordable, transportable mobile PC. In the city and in the country, in the classroom, the cubicle, the car and the carpool—imagine how far you can go using the power and flexibility of a mobile Intel Pentium III processor-based system featuring Intel SpeedStep technology.

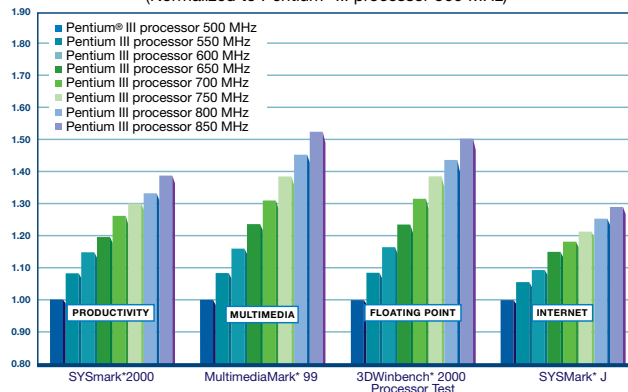
Advantages of a mobile PC with a mobile Intel® Pentium® III processor featuring Intel® SpeedStep™ technology

Now manufacturers can equip many of their lightest and newest mobile PCs with features traditionally found only in high-end desktop systems, including:

- Maximum performance mode for near-desktop performance while connected to external power, and battery-optimized mode for 80% of maximum performance.
- DVD and 24X CD-ROM drives for a superb multimedia experience.
- High-capacity hard drives reaching up to 24 GB.
- 15-inch screens implementing high-quality TFT (active matrix) technology.
- Dial-up 56Kb/s v.90 modems and wireless access options for fast, reliable Internet connections.
- Universal Serial Bus ports for high-performance connectivity to peripherals.

Mobile Pentium® III processor performance

(Normalized to Pentium® III processor 500 MHz)



Source: Intel® Pentium® III processors were tested with 256K of on-die L2 cache, 128-MB SDRAM 100, Toshiba® CD XM-1902B 24X, 440BX chipset with processor system bus running at 100 MHz, ATI® Rage® Mobility-M1 AGP2x graphics controller, 4.8-GB IBM® hard disk drive, ESS® Maestro®-31 Sound Card, DirectX® version 7.00G and Windows® 98 SE OS.

Quality. Reliability. Portability.

Visit the Intel® e-Business Center at www.intel.com/eBusiness for the information, products and services that drive the Internet economy. To learn more about Intel mobile processors, visit our Web site at www.intel.com/mobile.

*Source: Intel. These performance numbers were obtained by testing a commercially available mobile Intel® Pentium® III processor-based mobile PC. The system configurations are the following: OEM A, System 1 with mobile Intel Pentium III processors 850, 800, 750, 700, 650, 600, 550 and 500 MHz were tested with 256K of on-die L2 cache, 128 MB SDRAM 100, Toshiba CD XM-1902B 24X, 440BX chipset with processor system bus running at 100 MHz, ATI® Rage® Mobility-M1 AGP2x graphics controller, 4.8-GB IBM® hard disk drive, ESS® Maestro®-31 Sound Card, DirectX® 7.00G and Windows® 98 SE OS.

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