Feature	Benefit
Highly efficient CoolStream architecture	Increased performance and decreased power consumption
Clock speeds of 1GHz and beyond	Superior digital media and productivity application performance
16 Pipeline stages	Faster CPU speed and efficiency
StepAhead Advanced Branch Prediction	Looks ahead and gathers the data needed to optimally run applications
Efficiency enhanced 64KB Full-Speed Exclusive L2 cache with 16-way associativity	Greater memory optimization for enhanced digital media streaming and over all performance
SSE Instructions	Enhanced 3D and multimedia performance.
Full Speed FPU	Additional processing power for 3D graphics, multimedia, and streaming functions
Industry leading 0.13 micron manufacturing process	Minimizes power consumption and heat generation while allowing smaller, lighter processor coolers and maximizing total system power efficiency
Ultra low power consumption	Industry leading maximum power consumption of a mere 11 watts at 1GHz
Ultra low heat	Low heat, so less active cooling is required. Ideal for light, low profile and quiet notebook designs
PadLock Data Encryption Engine	Power efficient on-die Hardware Random Number Generator (RNG)
PowerSaver 2.0	Helps extend battery life by dynamically altering the VIA Antaur processor voltage and clock frequency
EBGA package	Lower profile, higher speed, greater efficiency, better heat dissipation, requires less system real estate
Full x86 operating system & software application compatibility	Leverages the richest and most cost-effective software development platforms, including Microsoft® Windows® and Linux

VIA Antaur™ Processor:
The best processor for slim and light notebooks

Based on the advanced VIA CoolStream™ architecture, the VIA Antaur processor is designed to use less power and require less cooling and valuable space than other mobile processors, enabling slim and light notebook system designs with extended battery life. VIA PowerSaver™ 2.0 technology helps to further reduce power consumption, providing greater mobility with fewer recharging stops.

The VIA Antaur processor is compatible with Microsoft® Windows® XP/2K/ME and a variety of Linux-based operating systems and has been optimized for the most popular mainstream applications through performance enhancing technologies such as StepAhead™ Advanced Branch Prediction, providing all the digital media and general productivity performance required by the office, home and school notebook user.

Wireless networks add tremendous value and freedom to notebook users on the go and are becoming increasingly ubiquitous and accessible. VIA Antaur notebooks are equipped with ample expandability options to facilitate wireless* connectivity with minimal extra cost. Further enhancing the mobile experience and peace of mind, the VIA Antaur processor is equipped with the VIA PadLock™ Data Encryption Engine, the first ever on-die hardware Random Number Generator (RNG)**, that can be used for data encryption and other system/networking security applications.

CoolStream   PadLock   PowerSaver   StepAhead

*VIA Antaur systems can be Wi-Fi enabled through a number of expandability options such as PCMCIA and USB 2.0 ports, allowing the user to connect via best of breed 802.11b, a or g wireless standards. Additional hardware and software may have to be purchased separately when not bundled with VIA Antaur notebooks.
**The PadLock Data Encryption Engine has undergone comprehensive testing by leading data security firm, Cryptography Research, Inc.; results show high-performance, high-quality entropy and ease of use. Download the complete Cryptography Research report, "Evaluation of VIA C3 Random Number Generator," dated February 27, 2003 from the VIA Antaur processor website or the Cryptography Research website.

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