

National Semiconductor's Geode GX2 Processor Family Delivers Unparalleled Performance and Power Consumption Levels for Information Appliances

National Semiconductor's Geode™ GX2 family of x86-based, highly-integrated processors provides high-performance and the lowest power consumption for next-generation information appliances. Key features and benefits of the new Geode GX2 processor are as follows:

Features	Benefits
X86 Architecture	<ul style="list-style-type: none"> • Accelerate software development and time-to-market • Internet plug-in compatibility • Virtually unlimited pool of software developers
3DNow!™ Instructions	Improve performance for streaming multimedia applications using 3DNow! instructions set
Double-date-rate (DDR) Controller	<ul style="list-style-type: none"> • Double memory bandwidth • improve performance of memory intensive applications at little or no additional cost
Embedded GeodeLink™ Power Management	<ul style="list-style-type: none"> • Improve battery life • No software development necessary to implement efficient power management • Fast time-to-market
Integrated Display Controller (with CRT DACs or TFT/DSTN Controller)	<ul style="list-style-type: none"> • Cost effective system solution • Efficient use of memory through use of unified memory architecture • CPU/memory/display controller on the same chip ensures fast and efficient data path
Improved Floating-point Unit	Improve performance for applications using floating-point unit such as handwriting recognition
Improved Integer Unit	Improve performance for applications using integer units such as Web browsers and Java
Instruction and Data Caches	16 Kb of I and 16 Kb of D cache improve processor performance
JTAG Interface / In-Circuit Emulation	Faster software development for customers' time-to-market needs



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PCI Bridge	Interface to industry standard PCI devices
Optimized Unified Memory Architecture (UMA)	<ul style="list-style-type: none"> • Lower system cost • Minimum board space
Full Software Stack	Full system-level driver solutions guarantees design efficiency and fast time-to-market

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