

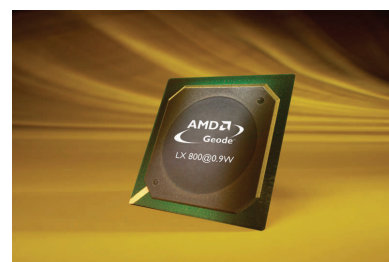
The AMD Geode™ LX 800 @ 0.9W Processor Now Supporting Extended Temperature Applications

AMD EMBEDDED SOLUTIONS: EVOLVING TO OFFER A NEW CHOICE FOR EMBEDDED SYSTEMS

The AMD Geode™ LX 800 @ 0.9W processor has evolved to meet the specific requirements of extended temperature applications in telecommunications infrastructure (including wired, wireless, and BSC/MSC), single board computing, automotive and transportation systems and industrial control and monitoring.

Responding to customer demand, AMD is now providing the high performance, very low power and x86 compatibility of the AMD Geode LX 800 @ 0.9W processor in an extended temperature version supporting -40 to $+85$ degrees Celsius.

This ideal foundation for extended temperature embedded systems is offered with the AMD Geode CS5536 companion device, which also now supports the industrial temperature range and is optimized to work with AMD Geode LX processors to deliver an integrated solution with very low power consumption and internal data speeds above 1 GB/s.



DESIGN WITHOUT COMPROMISE

AMD Embedded solutions, including AMD Geode and AMD64 processors, support the embedded industry's business need to shorten design cycles and get systems to market fast. With a wealth of design tools and support and a robust embedded processor roadmap with extended component longevity, AMD is a leader in enabling high performance, low power embedded designs.

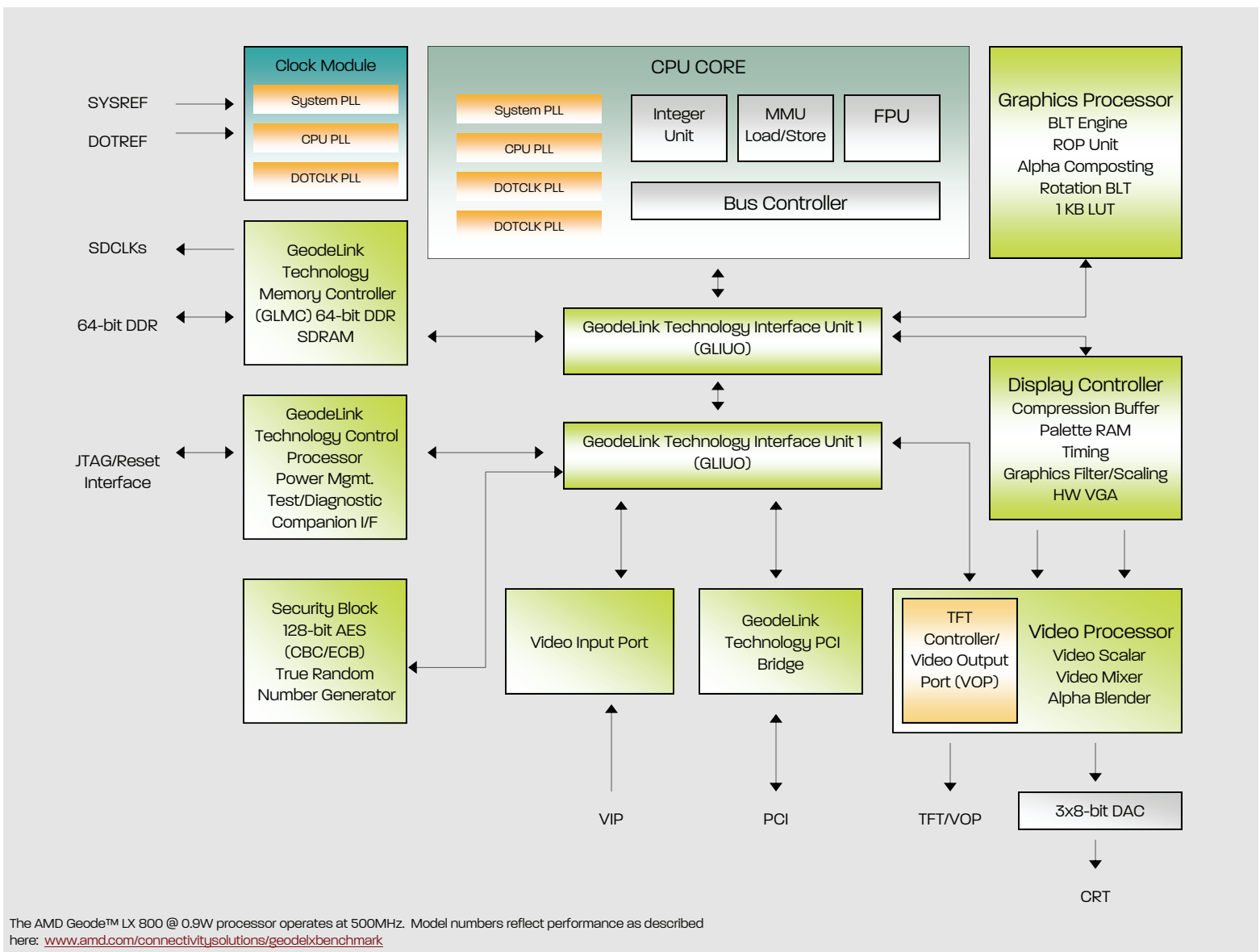
Along with the creativity and innovation of our customers, AMD is helping push the embedded space further into the future and enabling increasingly reliable, feature-rich embedded products—all on an industry-standard x86 architecture supporting all major operating systems and thousands of software applications.

Rely on AMD Embedded solutions and the AMD Geode LX 800 @ 0.9W processor for a high performance, low power, differentiated embedded system.



The AMD Geode™ LX 800 @ 0.9W Processor with Support for Extended Temperatures

- x86/x87-compatible core
- Processor frequency up to 500 MHz
- Support for Industrial Temperature range of -40 to +85 degrees Celsius
- .09W
- 64K I/64K D L1 cache and 128K L2 cache
- Split I/D cache/Translation Look-aside Buffer (TLB)
- 64-bit DDR memory interface up to 400 MHz
- Integrated FPU that supports MMX™ and AMD 3DNow!™ technology instruction sets
- 9 GB/s internal GeodeLink™ technology Interface Unit (GLIU)
- Security Block with 128-bit AES (CBC/ECB) and true random number generator
- High-resolution CRT and TFT outputs (simultaneous operation) with support for High Definition (HD) and Standard Definition (SD) standards and support for 1920x1440 in CRT mode and 1600x1200 in TFT mode
- VESA 1.1 and 2.0 VIP/VDA support
- 481-terminal Plastic Ball Grid Array (PBGA) with internal heatspreader
- GeodeLink technology active hardware power management
- Hardware support for standard ACPI software power management
- I/O companion SUSP#/SUSPA# power controls
- Lower power I/O
- Wakeup on SMI/INTR



The AMD Geode™ LX 800 @ 0.9W processor operates at 500MHz. Model numbers reflect performance as described here: www.amd.com/connectivitysolutions/geodelxbenchmark



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