



Products & Technologies

Processors

AMD Opteron™ Processor Family

Socket AM3/AM2 Processors

AMD Athlon™ | AMD Athlon™ X2

ASB2 (BGA) Processor Family

ASB1 (BGA) Processor Family

Socket S1 Mobile Processors

AMD Geode™ LX Processor Family

Geode™ CS5536 Companion Device

LX DB800 Development Board

Other Embedded Processors

White Papers

Pb-Free Development Program

Technical specifications[Download the PDF](#)

- x86/x87-compatible core
- Processor frequency
 - LX 900, up to 600MHz
 - LX 800, up to 500MHz
 - LX 700, up to 433MHz
 - LX 600, up to 366MHz
- 64K I/64K D L1 cache and 128K L2 cache
- Split I/D cache/TLB (Translation Look-Aside Buffer)
- 64-bit DDR Memory interface up to 600MHz (LX 900), up to 400MHz (LX 800), up to 333MHz (LX 700), and up to 366MHz (LX 600)
- Integrated FPU that supports the Intel MMX™ and AMD 3DNow!™ technology instruction sets
- 9 GB/s internal GeodeLink™ Interface Unit (GLIU)
- Security Block
 - 128-bit AES (CBC/ECB)
 - True Random Number Generator
- High-resolution CRT and TFT outputs (simultaneous operation)
 - Support for High Definition (HD) and Standard Definition (SD) standards
 - Support 1920x1440 in CRT mode and 1600x1200 in TFT mode
- VESA 1.1 and 2.0 VIP/VDA support
- 0.13 micron process
- 481-terminal PBGA (Plastic Ball Grid Array) with internal heatspreader

Power management

- 2.6W Typical (5.1W TDP) @ 600MHz
- 1.8W Typical (3.6W TDP) @ 500MHz
- 1.3W Typical (3.1W TDP) @ 433MHz
- 1.2W Typical (2.8W TDP) @ 366MHz
- GeodeLink 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 SM/INTR
- Optional In-package 2KBit EEPROM

Ordering information

- OPN:
 - ALXG900EEYJ2VH
 - ALXD800EEXJCVC
 - ALXD800EEXJ2VF
 - ALXD800EEXJCVD
 - ALXC700EETHCVC
 - ALXC700EETHCVD
 - ALXD800EEXJ2VC
 - ALXD800EEXJ2VD
 - ALXC700EETH2VC
 - ALXC700EETH2VD
 - ALXC600EETK2VD

*This processor operates at 433MHz.
 **This processor operates at 500MHz.
 ***This processor operates at 600MHz.

Model numbers reflect performance as described [here](#).

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