

PRODUCT BRIEF:
Logic :: AMD

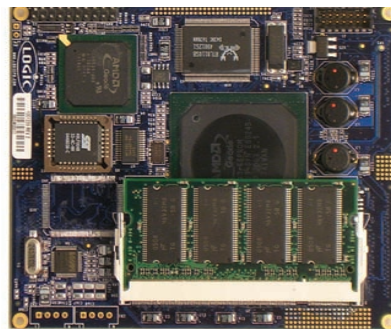
AMD GEODE™ LX 800 System on Module

The AMD Geode LX 800 System on Module (SOM) is a compact, low-power x86, product-ready hardware and software solution that fast forwards your embedded design.

The AMD Geode LX 800 SOM-ETX offers essential features for building small form factor and embedded PC systems. Use of custom baseboards makes the SOM-ETX the ideal foundation for OEMs developing handheld and compact products. The SOM-ETX provides a common reference pin-out on its expansion connectors, which enables easy scalability to next generation microprocessor SOMs when new functionality or performance is required.

Application development is performed right on the product-ready AMD Geode LX 800 SOM-ETX, which enables you to seamlessly transfer your application code and hardware into production.

The AMD Geode LX 800 SOM-ETX is ideal for applications in the medical, point-of-sale, gaming, industrial, and security markets. From patient monitoring and medical imaging, to card payment



AMD GEODE LX 800 SOM-ETX

terminals and bar code readers, to CCTV cameras and intruder alarms, the AMD Geode LX 800 SOM-ETX allows for powerful versatility and long-life products.

GEODE LX 800 SOM-ETX :: HIGHLIGHTS:

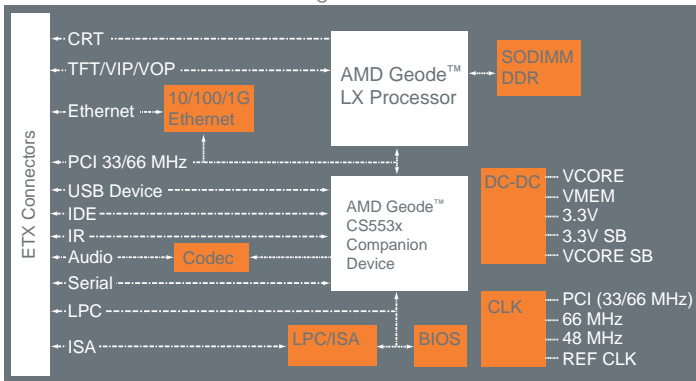
- + Product-ready System on Module
- + Compact form factor based on ETX standard (96 x 115 mm)
- + Operating system drivers available for Microsoft Windows® XP/XPe/CE and Linux
- + Fanless and ultra-low power consumption
- + Long product lifecycle
- + 0°C to 70°C (commercial temp)
- + RoHS compliant

ZOOM™ GEODE LX DB800 :: FEATURES:

- + Mini-ITX application baseboard
- + LX 800 SOM-ETX
- + 256 MB SODIMM
- + CompactFlash interface
- + Low cost
- + See the Zoom™ Geode LX Development Kit product brief for more information



Geode LX SOM-ETX Block Diagram



Block diagram is not drawn to scale. For reference purposes only.

Geode LX SOM-ETX Ordering Information

Logic Model Number	Speed (MHz)	DDR Mem (MB)	Stack Height (mm)
SOMLX800-10-700GCR*	500	256	7
SOMLX800-11-000GCR	500	0	3

*SOMLX800-10-700GCR configuration is only available with development kit and is not available in production quantities.

ZOOM™ Geode LX Development Kit Ordering Information

Model Number	SOM Configuration	Recommended Resale
LX-DB800D-EVAL-KIT	SOMLX800-10-700GCR	\$750

LOGIC WEBSITE :: DESIGN RESOURCES:

- + Logic Technical Support : <http://www.logicpd.com/support/>
- + Technical Discussion Group : <http://www.logicpd.com/support/tdg/>
- + Frequently Asked Questions (FAQ) : <http://www.logicpd.com/support/faq/>
- + For more information contact Logic Sales : product.sales@logicpd.com



embedded product solutions

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Product Features

Processor

- +AMD Geode LX 800 processor running at 500 MHz

SDRAM Memory

- +Supports up to 512 MB—PC2700

Display

- +TFT LCD support up to 1600x1200x32bpp
- +CRT support up to 1920x1440x32bpp at 85Hz

Peripheral Support

- +USB 2.0—three high-speed hosts and one configurable host/device
- +Serial—three RS232, 16C550 compatible ports
- +IDE—UltraATA 133 support
- +Ethernet, 10/100/1G—Realtek 8110SB
- +AC97 audio
- +PCI, 33/66 MHz—2.2 and 3.0 compliant
- +LPC to ISA bridge—Winbond W83626F

Flash Interface

- +Multiplexed with IDE interface supports many industry standard NAND and NOR flash

Operating System Support

- +Microsoft Windows® XP
- +Microsoft Windows® XPe
- +Microsoft Windows® CE
- +Linux

BIOS

- +General Software
- +Insyde Software

Mechanical

- +96 mm wide x 115 mm long x 12 mm high

RoHS Compliant

