

MSC ETE-GLX3

AMD Geode LX800



Description

The design of the MSC ETE-GLX3 module is based on the AMD LX800 @ 0.9W processor combined with the AMD Geode™ CS5536 Companion Chip.

It offers a rich feature set in combination with entry level PC performance and lowest power requirements.

Two IDE interfaces and onboard SATA according to ETX 3.02 specification offer broadest storage capabilities.



95 x 114



5.5 W



Entry



Highlights

- AMD® LX800 @ 0.9W Processor (500MHz)
- Companion Chip AMD Geode™ CS5536
- Up to 1 GB DDR SDRAM
- CompactFlash Slot
- Two SATA interfaces
- Two PATA interfaces
- Integrated LCD TFT graphics (LVDS and TTL options)
- PCI Bus
- ISA Bus (Subset)

Technical Data – MSC ETE-GLX3

Module Standard

ETX® Standard 3.02 compliant

Core Logic, Memory

CPU

AMD Geode™ LX800@0.9W (500MHz), 64KB data, 64KB instruction L1 caches, 128KB L2 cache

Companion Chip

AMD Geode™ CS5536

Memory

200-pin SO-DIMM socket for up to 1 GB DDR SDRAM

Storage Interfaces

CF

1 CompactFlash Socket (Type I)

EIDE

2x ATA (PIO Mode 1-4), DMA100, 2 devices, one device shared with CompactFlash socket

SATA

2x SATA (up to 150MB/s)

Floppy

Floppy interface (shared with LPT)

Bus Interfaces

PCI

32-bit, PCI V2.2 compliant

ISA

ISA Interface Subset (no ISA Bus Master, no DMA operation; 16-bit bus operations are executed as a sequence of two 8-bit bus operations)

Serial

I2C Bus interface, SM Bus

Standard Interfaces

Parallel

W83627 Controller: EPP/ECP/SPP (shared with Floppy Port)

Serial

2x TTL

Infrared

1x IrDA 1.1 SIR interface

Keyboard / Mouse

PS/2 interface

USB

USB V1.1 with 1.5 or 12Mbit/s, USB V2.0 EHCI 1.0 compliant, USB port 4 may be configured as "device"

Display Interface

Integrated Graphics

Integrated LCD TFT Graphics Controller

Video Memory

UMA (up to 256 MB)

LCD Interface

LVDS (18/24-bit) or TTL, max. resolution 1.600 x 1.200 pixel

CRT Interface

max. resolution 1.920 x 1.440 pixel

Miscellaneous

Watchdog Timer

generates a system reset; programmable via BIOS Setup program

RTC

integrated in CS5536

EEPROM

I2C EEPROM for CMOS Backup and non-volatile storage

System Monitoring

Voltage, temperature

Network Interface

Ethernet

Intel® 82551 10/100Base-TX

Audio Interface

AC'97 audio codec LM4549

BIOS

Type

Insyde BIOS

Auto Configuration

Plug & Play (PCI), PCI Auto Configuration (PCI 2.1)

Boot Options

MultiBoot (FD, HD, CD, LAN, USB) , boot without keyboard

Power Management

APM, ACPI (including Suspend-To-RAM)

USB

USB legacy support (Keyboard, Mouse)

Video

VGA BIOS with flat panel extensions, (EDID support)

Flash Update

BIOS update via storage media

Setup

CMOS data backup in Flash chip

Power Supply

Power Supply Voltage

+5V +/-5%

Power Consumption

5.5W typ. (500MHz, 256MB), 150mW (Suspend-To-RAM mode @ 5V Stby)

Environment

Ambient Temperature

0° ... 60° C (operating)

-25° ... 85° C (storage)

Humidity

10 ... 90% (operating, non-condensing)

5 ... 95% (storage, non-condensing)

Mechanical

Dimensions

95mm x 114mm x12mm

Certifications

UL Listing

UL File E254492



Order Reference – MSC ETE-GLX3

Order Number	Description	Reference
32253	AMD Geode LX800@0.9W, 500MHz, 2x IDE, 2x SATA, LCD interface (LVDS), 10/100Base-T Ethernet, AC97 audio, 4x USB 2.0, CompactFlash slot	MSC ETE-GLX3-CPU500-249000
32327	AMD Geode LX800@0.9W, 500MHz, 2x IDE, 2x SATA, LCD interface (Dual-/Single-LVDS), 10/100Base-T Ethernet, AC97 audio, 4x USB 2.0, CompactFlash slot	MSC ETE-GLX3-CPU500-219000
32284	AMD Geode LX800@0.9W, 500MHz, 2x IDE, 2x SATA, LCD interface (TTL), 10/100Base-T Ethernet, AC97 audio, 4x USB 2.0, CompactFlash slot	MSC ETE-GLX3-CPU500-289000

Accessories

Order Number	Description	Reference
	Cooling	
24899	Heat spreader for ETE-GLX/GLX3 with threaded standoffs M2.5	MSC ETE-GLX-01 HSP-001
25916	Heat spreader for ETE-GLX/GLX3 with through-hole standoffs	MSC ETE-GLX-02 HSP-001
	Carrier Boards	
31635	Base board in ATX form factor; with many debugging aids, Super-I/O controller and various interfaces	MSC ETE-MB-ATX
32351	Base board in PISA form factor, also usable as stand-alone base board for evaluation and small series production; floppy controller; many PC typical I/O interfaces; power connector	MSC ETE-MB-PISA
	Memory Modules*	
1060458	DDR SODIMM, 512MB, 64Mx64, 2.5V, CL2.5, PC2700	MT8VDDT6464HIY-335F3
1042910	DDR SODIMM, 512MB, 64Mx64, 2.5V, CL2.5, PC2700	M470L6524CU0-CB3/M
	* Pre-qualified memory modules for the CPU product above	

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