

MB500

AMD Geode LX Mini-ITX Motherboard with AMD CS5536 Chipset



(click to zoom)
[Datasheet in PDF](#)



FEATURES

- Supports AMD Geode LX, 433MHz (LX700) / 500MHz (LX800)
- DDR DIMM x 1, Max. 1GB memory
- One or two Realtek RTL8100C 10/100 Ethernet
- Integrated LX800/LX700 2D VGA controller
- Supports VGA CRT and TFT/LVDS LCD display
- 4x USB 2.0, 4x COM, CompactFlash socket
- Watchdog timer, Digital I/O, 1x PCI, 1x Mini PCI

MB500 SPECIFICATIONS

CPU

AMD Geode LX
LX800 @ 500MHz (MB500F)
LX700 @ 433MHz (MB500)

Chipset

AMD CS3356 chipset

BIOS

Award BIOS, 4Mbit

System Memory

One DDR socket supports up to 1GB DDR SDRAM
266/333/400 DDR SDRAM

Integrated VGA

AMD LX800/LX700 built-in 2D graphics controller
Supports CRT and TFT LCD display
Supports 24-bit single channel LVDS
64MB shared memory

LAN

One or two Realtek RTL8100C 10/100 Ethernet controller
RJ-45 on board

Audio

Line in, Line out, Mic connectors on board

Multi I/O

AMD CS5536 + Winbond W83627HF + Fintek F81216D TFT interface
Supports 1x IDE, 1x FDD, 1x KB, 1x Mouse, 4x RS232, 1x LPT

IDE Interface

One enhanced IDE channel supports 2 IDE devices;
supports UDMA33/66/100

FDD Interface

Onboard slim FDD connector

Serial Ports

Four Serial ports (COM2 configurable as RS422/485)

USB (2.0)

Supports 4 USB ports (2 ports + 2 ports via pin header)

IrDA

Pin header

Keyboard and Mouse Connector

PS/2 type

Watchdog Timer

Generates system reset; 256 levels

Hardware Monitoring

Built in W83627HF; monitors system/CPU temperature and voltage status

Digital I/O

4 in / 4 out

Expansion Slot

1 PCI, 1 MiniPcl

CompactFlash Socket

Type II

Edge Connectors

PS/2 KB & Mouse, 4x USB, COM1, LPT, RJ45, VGA, LAN1 RJ45, LAN2 RJ-45 (MB500F only), SPDIF

Onboard Connectors/Headers

CF socket, COM2/3/4, IDE, FDD, USB, IrDA, 44-pin

Form Factor

Mini-ITX Motherboard

Dimensions

170mm x 170mm

Environmental Factors:

Operating Temperature: 0°C~60°C (32°F~140°F)

Storage Temperature: -20°C~80°C (-68°F~176°F)

Relative Humidity: 10%~90% (non-condensing)



MB500 Mini ITX Motherboard

Ordering Information:

MB500 - AMD Geode LX700, 433MHz, Mini ITX motherboard w/ VGA, **10/100 LAN**, CF

MB500F - AMD Geode LX800, 500MHz, Mini ITX motherboard w/ VGA, **dual 10/100 LAN**, CF

Remarks: Boards supporting -20°C~70°C wide temperature are optionally available. Please inform your sales contact, if required.

Remarks: Add (-R) after the model name for RoHS-compliant version when ordering.

Packing List:

- 1 x I/O Shield
- 1 x cable kit (IDE, COM, LPT)
- 1 x Driver CD
- 1 x User's Manual