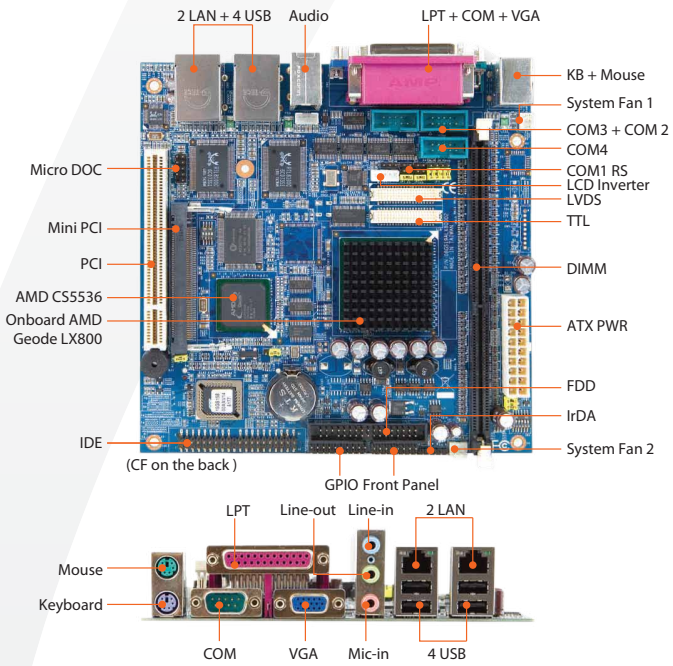
Mini-ITX Motherboard

MX800LX

AMD Geode™ LX800 500MHz Mini-ITX Motherboard



Features

- Onboard AMD Geode™ LX800 CPU with AMD LX800 integrated graphic controller supports multiple display functions
- AMD Geode™ CS5536 companion Chipset
- One DIMM up to 1GB DDR 400 SDRAM
- 18/24-bit TTL, 24-bit LVDS
- Realtek ALC203-LF supports 2 CH Audio
- Dual Realtek RTL8100C LAN
- 1 PCI, 1 Mini PCI, 1 Type I/II CF
- 4 COM, 4 USB 2.0
- Optional built-in touch screen I/F

AMD Geode LX800	18/24-bit TTL	24-bit LVDS	Dual LAN
Mini PCI	PCI	CF	Touch Screen I/F (optional)
GPIO			

Specifications

System

CPU	Onboard AMD Geode LX800 @ 0.9W with 128K L2 Cache or 64K L1 Cache
BIOS	Award 4Mb Flash ROM BIOS
System Chipset	AMD Geode LX800/CS5536
I/O Chip	Winbond W83627HG-AW
System Memory	One 184-pin DIMM socket supports up to 1GB DDR 400 SDRAM
SSD	One CompactFlash Type I/II socket
Watchdog Timer	Reset : 1 to 255 sec/min per step
H/W Status Monitor	Monitoring CPU temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats
Expansion	1 PCI slot (PCI 2.2 Rev. compliant) 1 Mini PCI
Power State	S1, S3

Built-in Touch Screen Controller (optional)

Chipset	PenMount DMC9000
Touch Screen Interface	With 9-pin 2mm box header (can be selected to support 4/5/8-wire touch screen)

I/O

MIO	1 IDE (DMA33), 3 COM RS-232 (COM 1 w/ Power), 1 COM RS-232/422/485, 1 FDD, 1 LPT, 1 PS/2 Keyboard, 1 PS/2 Mouse
IrDA	115k bps, IrDA 1.0 compliant
USB	4 USB 2.0
GPIO	16-bit General Purpose I/O for 8-bit DI and 8-bit DO

Display

Chipset	AMD Geode LX800 with integrated graphics engine
Display Memory	AMD LX800 integrated graphics controller supports up to 32 MB video memory
Resolution	CRT mode: 1920 x 1440 (@ 85 Hz) TFT mode: 1600 x 1200 (@ 100Hz)
LVDS	Single channel 24-bit LVDS

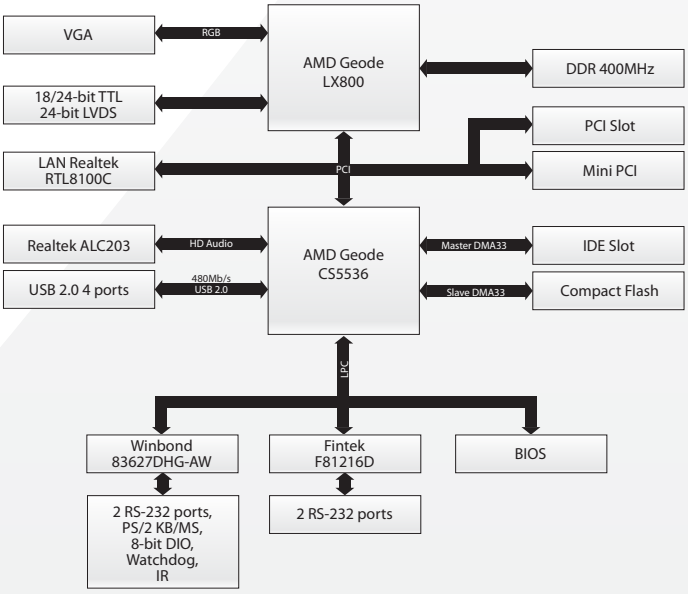
Audio

Audio Codec	Realtek ALC203 supports 2 CH AC97 Audio
Audio Interface	Line-in, Line-out, Mic-in

Ethernet

LAN 1	Realtek RTL8100C PCI 10/100Mbps LAN
LAN 2	Realtek RTL8100C PCI 10/100Mbps LAN

Block Diagram



Ordering Information

MX800LX
90I-LX8000-10000B2
MX800LX R10G STD BGA481

Product Offering

until 2015

Packing List

COM Cable w/o Bracket	x 3
FDD Cable	x 1
IDE Cable	x 1
I/O Shield	x 1
Driver CD	x 1
Startup Manual	x 1

Optional Accessory

14GS0000072V04	2 Port COM Cable w/ Bracket

Back Panel I/O Port

1 PS/2 Mouse
1 PS/2 Keyboard
1 LPT Port
1 COM RS-232 Port
Audio I/O (3 jacks)
2 LAN RJ45 Ports
4 USB 2.0 Ports

Internal I/O Connector

1 Micro DOC Connector
1 FDD Connector
1 IDE Connector for 2 devices
3 COM Connectors
1 Touch Screen Connector (optional)
2 System Fan Connectors
1 CD Audio-in Connector
1 LVDS Connector
1 Inverter Power Connector
1 IrDA Connector
1 TTL Connector
1 Digital I/O Connector
1 Front Panel Connector

Mechanical & Environmental

Power Requirement	+12V 0.12A	+5V 1.3A	+3.3V 0.5A	5VBS 0.14A
Power Type	ATX			
Power Connector	20-pin ATX Power Connector			
Operating Temperature	0 to 60°C (32 to 140°F)			
Operating Humidity	0% to 90% relative humidity, non-condensing			
Size (L x W)	6.69" x 6.69" (170 mm x 170 mm)			
Weight	0.88 lbs (0.4 Kg)			

** The product information and specifications are subject to change without prior notice.
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