



Features

- Onboard AMD Geode LX800 @ 0.9 W with 128K L2 Cache CPU
- AMD Geode LX800 / CS5536 Chipset
- One 200-pin SODIMM up to 1 GB DDR SDRAM
- Dual View , TFT, LVDS, 2-CH Audio
- Realtek RTL8101L 10/100 Mbps LAN
- ITE IT8888G PCI to ISA Bridge
- 2 COM, 4 USB 2.0
- Fanless Operation

LX800 @0.9W

LVDS

Fanless

Dual View

4 USB 2.0

4 PCI

4 ISA

Specifications

System

• CPU	Onboard AMD Geode LX800 @ 0.9 W with 128K L2 Cache
• BIOS	Award 512KB Flash BIOS
• System Chipset	AMD Geode LX800 / CS5536
• I/O Chip	Winbond W83627HG-AW
• System Memory	One 200-pin SODIMM socket supports up to 1 GB DDR 333/400 SDRAM
• Watchdog Timer	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
• H/W Status Monitor	Monitoring CPU temperature, voltage.
• Expansion	4 PCI bus, ISA bus

I/O

• MIO	1 x EIDE (Ultra DMA 100), 1 x FDD/LPT, 2 x TTL serial, 1 x K/B & Mouse
• IrDA	115k bps, IrDA 1.0 compliant
• USB	4 x USB 2.0 ports

Display

• Chipset	AMD Geode LX800 with integrated graphics engine
• Display Memory	8/16/32/64/128/254 MB frame buffer using system memory
• Resolution	CRT mode: 1920 x 1440 @ 32 bpp (85 Hz) TFT mode: 1600 x 1200 @ 32 bpp (60Hz)
• Multiple Display	CRT+LVDS
• VGA/LCD Interface	PCI bus VGA/LCD interface
• LVDS Interface	18-bit LVDS

Audio

• Chipset	AMD Geode CS5536
• AC97 Codec	Realtek ALC203 supports 2-CH Audio
• Audio Interface	Mic in, Line in, CD audio in, Line out

Ethernet

• LAN	Realtek RTL8101L
• Ethernet Interface	100 Base-Tx Fast Ethernet compatible

Mechanical & Environmental

• Power Requirement	+5 V @ 2.02 A, 5 Vsb @ 0.08 A (with AMD LX800 500 MHz & 256 MB DDR 333 SDRAM)
• Power Type	AT / ATX
• Operating Temperature	0~60°C (32~140°F)
• Operating Humidity	0%~90% relative humidity, non-condensing
• Size (L x W)	4.5" x 3.7" (114 mm x 95 mm)
• Weight	0.22 lbs (0.1 kg)

Ordering Information

- **ESM-2545-18 (A3)**
AMD Geode LX800 @ 0.9 W ETX Module with 18-bit LVDS
- **ESM-2545-24 (A2)**
AMD Geode LX800 @ 0.9 W ETX Module with 24-bit LVDS
- **EEV-EX01** P. 1-17
ETX carrier board for evaluation
- **ETX Carrier Board** P. 1-16 ~ P. 1-20
Available in various form factors
- **ACC-HSP-2545-1R**
Heat Spreader for ESM-2545
Note: Cable kit not included

CH1

ETX/
COM Express

CH2

3.5" SBC

CH3

EPIC

CH4

5.25" SBC

CH5

PC/104

CH6

IMB

CH7

Embedded
System

CH8

MTP
Panel PC

CH9

Panel PC

CH10

ahis

CH11

Peripheral

CH12

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