



ESM-2545 ESM-LX800

AMD Geode LX800 @ 0.9 W ETX Module

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ESM-2545 AMD Geode LX800 ETX Module



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, Audio
- Realtek RTL8101L LAN
- 4 PCI, ISA Bus, 2 x COM, 4 USB
- Fanless Operation

Specifications

System

• CPU	Onboard AMD Geode LX800 @ 0.9 W with 128K L2 Cache
• BIOS	Award 4 Mbit Flash BIOS
• System Chipset	AMD Geode LX800 / CS5536
• I/O Chip	Winbond W83627HG-AW
• System Memory	One 200-pin SODIMM 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 (through ITE8888G)

I/O

• MIO	1 x EIDE (Ultra DMA 100), 1 x FDD/LPT, 2 xTTL, 1 x K/B & MS
• 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	Single 18-bit LVDS (Optional 24-bit)

Audio

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

Ethernet

• LAN	Realtek RTL8101L
• Ethernet Interface	10/100 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 Temp.	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
- **ACC-HSP-2545-1R**
Heat Spreader for ESM-2545
Note: Cable kit not included



ESM-LX800 AMD Geode LX800 ETX Module



Features

- Onboard AMD Geode LX800 @ 0.9 W 500 MHz with 128K L2 cache
- AMD Geode LX800 / CS5536 Chipset
- Onboard 256MB DDR Memory; Optional onboard 512MB DDR Memory
- LVDS, AC97 Audio
- Realtek RTL8101L LAN
- 4 PCI, ISA Bus, 2 x SATA, 4 USB, 2 COM
- Fanless Operation

Specifications

System

• CPU	Onboard AMD Geode LX800 @ 0.9 W 500 MHz
• BIOS	Award 4 Mbit Flash BIOS
• System Chipset	AMD Geode LX800 / CS5536
• I/O Chip	Winbond W83627HG-AW
• System Memory	Onboard 256 MB DDR Memory, optional 512 MB
• Watchdog Timer	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
• Expansion	4 PCI bus, ISA Bus (through ITE8888)

I/O

• MIO	2 x EIDE, 2 x SATA, 1 x FDD/LPT, 2 x TTL, 1 x K/B & MS
• 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	Single 18-bit LVDS (Optional 24-bit)

Audio

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

Ethernet

• LAN	Realtek RTL8101L
• Ethernet Interface	10/100 Base-Tx Fast Ethernet compatible

Mechanical & Environmental

• Power Required	+5 V
• Power Type	AT / ATX (ATX is only available in 5VSB)
• Operating Temp.	0~60°C (32~140°F)
• Storage Temp.	-20~80°C (-68~176°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-LX800**
AMD LX800 ETX Module