



UNICORN COMPUTER CORP.

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Revision: 1.5

ENDAT-LX301

Specifications

CPU:

Onboard AMD GEODE LX series CPU integrate L1 64KB / L2 128KB cache.

Available LX CPU:

- LX 700: 1.3 Watt typical, 3.1 Watt for TDP.
- LX 800: 1.8 Watt typical, 3.6 Watt for TDP.
- LX 900: 2.6 Watt typical, 5.1 Watt for TDP.

Chipset:

AMD GEODE LX + CS5536

BIOS:

AWARD Flash BIOS

System Memory:

One DDR DIMM socket accepts 400MHz up to 1GB

Enhanced IDE interface:

- One IDE channel supports up to 2 EIDE devices (1 x 40-pin + 1 x 44-pin shared), UDMA 33/66/100 mode
- One on-board CF socket shared with IDE channel (optional)

Display Controller:

Chipset: Integrated 2D graphic engine by AMD GEODE LX

Display Type:

- CRT
- DVI (by MME; optional)
- TV out (by MME; optional)
- 18/24bit Single Channel LVDS
- Display combination:
- CRT + LVDS (simultaneous mode)
- CRT + DVI (simultaneous mode)
- CRT + TV (simultaneous mode)

Audio Controller:

- Chipset: CS5536 with AC'97 2.3 compliant
- Interface with 1.2W amplifier:

Phone-jack: Speaker-Out

Pin header: Speaker-Out, MIC-In, CD In and Line-In

High Speed Multi I/O:

- Chipset: W83627HG by ITE super I/O chip
- Serial Ports: 1 high speed RS-232 port and 1 high speed RS-232/422/485 port (by COM2 as option)
- Multi-Serial Ports: additional COM 3~6 by UCM-S/ UCM-SP as option (Occupy one USB channel)
- Parallel Port: 1 Bi-directional parallel port supports SPP/EPP/ECP mode
- USB Ports: 4 ports with 2.0 compliant
- Digital I/O: 12 bits bi-direction I/O with +3.3V level
- FDD: 2 x 1.44MB standard floppy
- TTL level COM port: Support via COM1

Network Interface:

- Chipset: VIA VT6122
- 10/100/1000 speed support, full duplex with RJ 45 connector onboard
- Boot from LAN function
- Wake on LAN function

Power management:

ACPI compliant

Real Time Clock:

On chip RTC with external Li Battery back up

On board Bus Expansion:

- One PCI expansion with edge connector for up to 3 PCI slots expansion via riser card with PCI 2.2 compliance
- Optional MME bus support various features

Board Dimension:

Mini-ITX form factor, 170 x 170 mm (6.69" x 6.69")

Power Types:

- +12VDC / ATX power supply support
- Wide range 5V~27 VDC input (optional)
- ATX only (optional)

Operating Temperature: 0 ~ 60°C

Ordering Information:

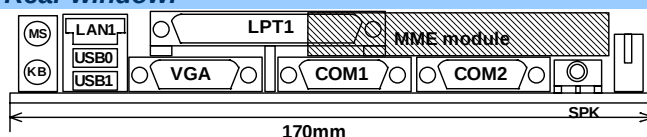
Optional features for ENDAT-LX301:

ENDAT-LX301: +12VDC and ATX Power supply w/o MME
ENDAT-LX301A: ATX only w/o MME
ENDAT-LX301W: Wide range DC input supports w/o MME

Optional modules:

- UCM-S : Support 4 COM Ports (via cable)
- UCM-SP: MME support 4 COM Ports + miniPCI
- UCM-D : MME support DVI
- UCM-T : MME support TV out
- UCM-E : MME support Multi-Ethernet
- CF socket: at rear side

Rear window:



Spot light:

- Low cost & fan-less x86 platform
- Various peripherals & expansion by MME bus
- Wide range 5V~27VDC input