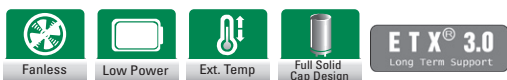
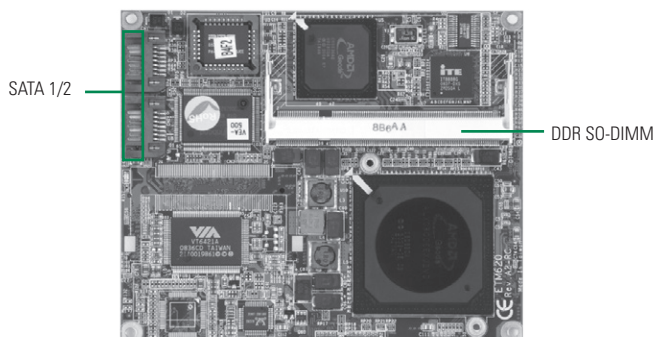


# ETM620

AMD Geode™ LX Family ETX V3.0 SoM with Multiple I/O Features



## System

|                       |   |
|-----------------------|---|
| CPU                   | AMD Geode™ LX800 processor onboard  |
| System Memory         | 1 x 200-pin SO-DIMM supports DDR-333/400 max. up to 1 GB                        |
| Chipset               | AMD LX800 + CS5536AD  |
| BIOS                  | Phoenix-Award   |
| SSD                   | 1 x CompactFlash™ type-II (optional; for PIO mode support only)                 |
| Watchdog Timer        | 255 levels, 1~255 sec.  |
| Expansion Interface   | 4 x 32-bit PCI bus master<br>16-bit ISA bus                                     |
| Battery               | N/A   |
| Power Requirements    | AMD LX800@500 MHz, 512MB DDR<br>Max. RMS: +5V @ 1.547A                          |
| Size                  | 114 x 95 mm   |
| Board Thickness       | 1.6 mm  |
| Operating Temperature | Standard: 0° ~ +60°C (32°F ~ 140°F)<br>Optional: -40°C ~ +85°C (-40°F ~ +185°F) |
| Relative Humidity     | 10% ~ 95% relative humidity, non-condensing                                     |

## I/O

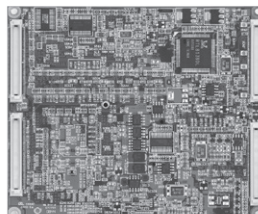
|                     |  |
|---------------------|--|
| MIO                 | 2 x IDE, PATA-100<br>1 x FDD (optional)<br>1 x LPT; with SPP/EPP/ECP supported<br>1 x PS/2 keyboard<br>1 x PS/2 mouse<br>2 x UARTs<br>1 x IrDA |
| SATA                | 2 x SATA-150   |
| Hardware Monitoring | Detect CPU/system temperature and voltage  |
| Ethernet            | 1 port as 10/100Mbps supports Wake-on-LAN, RPL/PXE<br>Boot ROM with Realtek RTL8139DL  |
| Audio               | AC'97 Codec audio as MIC-in/Line-in/Line-out with Realtek ALC203   |
| USB                 | 4 x USB 2.0  |

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Астана +7(7172)727-132  
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Владивосток (423)249-28-31  
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## Features

- AMD Geode™ LX800 processor onboard
- AMD LX800 + CS5536AD + ITE8888G chipset
- DDR SO-DIMM up to 1 GB
- 2 SATA-150, 2 PATA-100 supported
- Supports CRT, TTL LCD
- 3 PCI Bus master, ISA Bus supported
- TV-out (optional)
- Extended operating temperature (optional)



▲ Rear view

## Packing List

Quick installation guide, user's manual/utility CD, cable

## Ordering Information

### Standard

|                                    |  |
|------------------------------------|--|
| ETM620VEA-500<br>(P/N: E38G620100) | ETX 3.0 SoM with AMD Geode™ LX800 CPU onboard, VGA/TTL LCD, 10/100Mbps Ethernet, AC'97 audio and 2 UARTs ports |
|------------------------------------|--|

### Optional

|                                       |  |
|---------------------------------------|--|
| ETM620VEA-500-ET<br>(P/N: E38G620102) | ETX 3.0 SoM with AMD Geode™ LX800 CPU onboard, VGA/TTL LCD, 10/100Mbps Ethernet, AC'97 audio, 2 UARTs ports and W.T. (-40°C ~ +85°C) |
| ETB9F000                              | ATX form factor baseboard  |

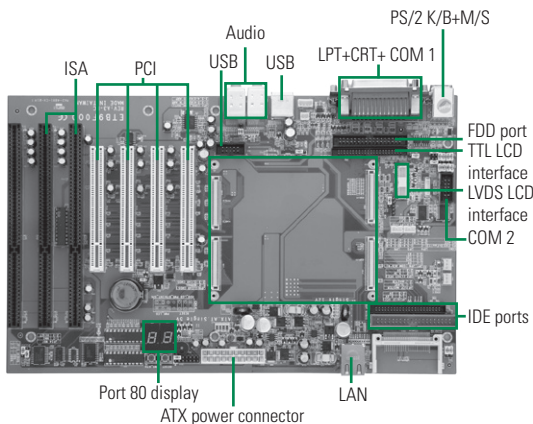
\* W.T.: Wide Temperature

## Display

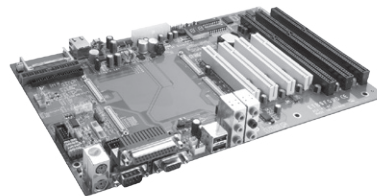
|                   |  |
|-------------------|--|
| Chipset           | AMD LX integrated                        |
| Memory Size       | Max. up to 254 MB                        |
| Display Interface | 1 x VGA<br>1 x TTL LCD; Max up to 24-bit |

# ETB9F000

## ETX Development Baseboard



- VIA V4 compliant C7/Eden processor onboard
- VIA CX700M + ITE8888G chipset
- DDR2-400/533 up to 1 GB
- 2 SATA-150, 1 PATA-133 supported
- DualView with different content & resolution
- 4 PCI Bus master, ISA Bus supported



▲ Side view

### System

|                     |   |
|---------------------|---|
| CPU                 | ETX module                                      |
| System Memory       | On the module                                   |
| Chipset             | SoC integrated                                  |
| BIOS                | On the module; optional socket on the baseboard |
| SSD                 | 1 x CFast™ type-II                              |
| Watchdog Timer      | N/A   |
| Expansion Interface | 4 x PCI<br>3 x ISA                              |
| Battery             | Lithium 3V/220 mAh                              |
| Size                | 304.8 x 190 mm                                  |
| Board Thickness     | 1.6 mm  |
| Temperature         | 0°C ~ +60°C (32°F ~ 140°F), operation           |
| Relative Humidity   | 10% ~ 95% relative humidity, non-condensing     |

### I/O

|                     |  |
|---------------------|--|
| MIO                 | 2 x IDE; PATA-100<br>1 x LPT/FDD (default as LPT enabled)<br>1 x PS/2 Keyboard and mouse<br>1 x RS-232 (COM 2)<br>1 x RS-232/422/485 (COM 1)<br>1 x IrDA |
| SATA                | N/A  |
| Hardware Monitoring | Provided by CPU module   |
| Ethernet            | 1 port as 10/100 Mbps  |
| Audio               | AC'97/HD audio with rear surround/sub woofer, AC'97 compliant Line-in/Line-out/Mic-in  |
| USB                 | 4 x USB 2.0  |
| Display             | VGA D-Sub connector<br>TTL/LVDS LCD interface  |

### Packing List

| Standard  |  |     |
|---|--|-----|
| Quick installation guide, user's manual/utility CD, cable |  |     |
| Cable   |  |     |
| Part Number   | Description  | Qty |
| 59382601000E  | Ultra DMA66 IDE cable 40-pin 455mm                     | 1   |
| 59386831000E  | USB cable w/ bracket, USB x 2, 2 x 5P, P=2.54, L=175mm | 1   |
| 59380402010E  | COM port cable w/ bracket                              | 1   |

### Ordering Information

| Standard                          |                             |
|-----------------------------------|-----------------------------|
| ETM9F000VEA                       | ETX baseboard               |
| (P/N: E39F000100)                 |                             |
| Compliant Modules and Accessories |                             |
| ETM620VEA                         | ETX SoM with AMD LX CPU     |
| PK8980                            | LCD kit for 18-bit TTL LCD  |
| PK95000-24                        | LCD kit for 24-bit LVDS LCD |

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Тула (4872)74-02-29  
Тюмень (3452)66-21-18  
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