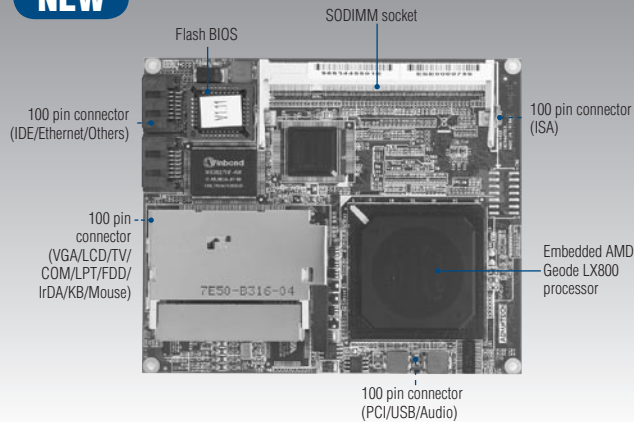


# SOM-4455

## AMD Geode™ LX800 CPU SOM-ETX Module with CPU, VGA/LVDS, Audio & LAN

**NEW**



### Specifications

- **CPU** Embedded AMD Geode LX800-500 MHz
  - **System Memory** 1 x 200-pin SODIMM sockets, support Double Data Rate (DDR) 128 MB to 1 GB, DDR200/266/333/400 DRAM
  - **System Chipset** AMD CS 5536
  - **BIOS** AWARD™ 512 KB Flash BIOS
  - **SSD** Supports CompactFlash® card
  - **Watchdog Timer** 256 levels timer interval, from 1 to 255 sec or min setup by software, jumperless selection, generates system reset
  - **Expansion Interface** PCI/ISA
- I/O**
- **MIO** 2 x EIDE Channel (Rev.A2), 1 x FDD/LPT, 1 x Keyboard, 1 x Mouse, 2 x RS-232, 2 x SATA (Rev.A2)
  - **IrDA** 115 kbps, IrDA 1.0 compliant
  - **Audio** AMD CS 5536, AC'97 2.3 compliant
  - **USB** 4 x USB ports, USB 2.0/1.1 compliant
- Ethernet**
- **Chipset** Intel® 82551ER 10/100Mbps Ethernet Chip
  - **Ethernet Interface** IEEE 802.3u 100Base-T Fast Ethernet

### Features

- Embedded AMD Geode™ LX800 CPU
- AMD LX800 Integrated Graphic Chip
- Supports 18-bit TTL or LVDS Panel
- Supports DDR High Speed Memory Technology
- Supports four USB 2.0 / two COMs / Audio / LAN / SATA

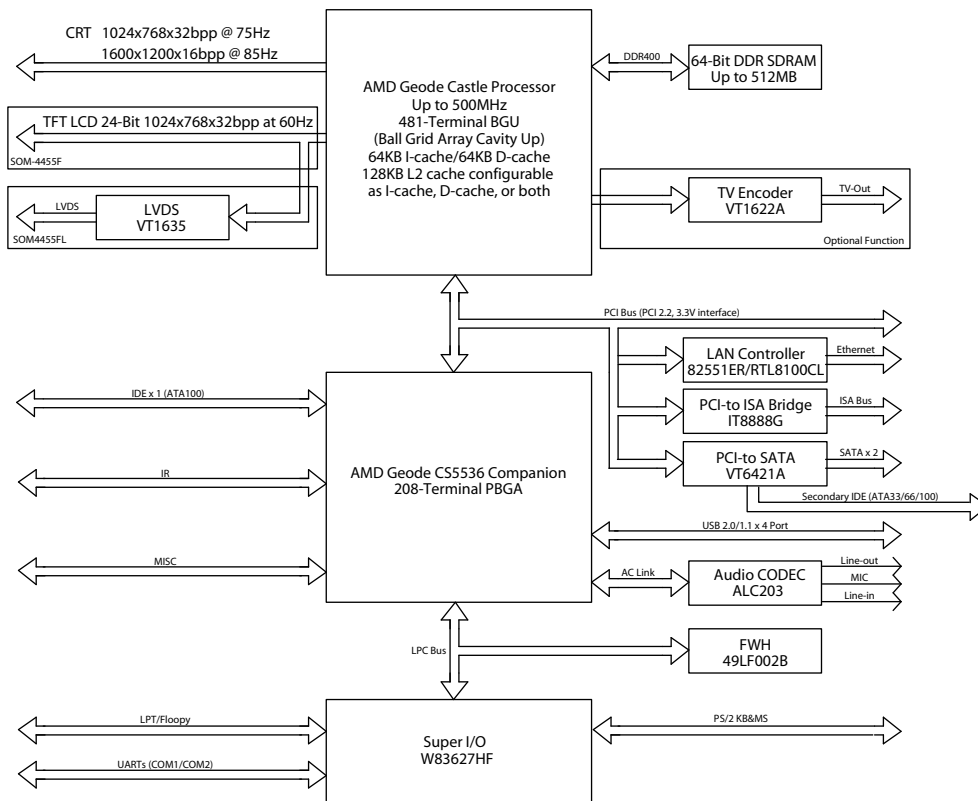
### Display

- **Chipset** AMD Geode LX800/CS 5536
- **Memory Size** 1 – 4 MB UMA shared memory
- **Resolution** CRT Mode: 1024 x 768 @ 22 bpp (85 Hz)  
1600 x 1200 @ 16 bpp (75 Hz)  
LCD/Simultaneous Mode: 1024 x 768 @ 16 bpp (60 Hz)
- **LCD Interface** 18-bit TFT panels up to XGA resolution
- **LVDS** 24-bit ANSI EIA/TIA-644 (SOM-4455FL-L0A1)
- **TV-Out** Supports both NTSC/PAL (Optional)

### Mechanical and Environmental

- **Dimensions (L x W)** 95 x 114 mm (3.7" x 5.4")
- **Power Supply Voltage** +5 V ±5%
- **Power Requirements** Max. : 5 V @ 3 A  
Typical : 5 V @ 1.5 A
- **Operating Temperature** 0 – 60° C (32 – 140° F), fanless operation
- **Operating Humidity** 0% – 90% relative humidity, noncondensing

## Board Diagram



## Ordering Information

| Part No.         | CPU                       | LCD  | IDE       | SATA | Operation temp. |
|------------------|---------------------------|------|-----------|------|-----------------|
| SOM-4455F-L0A2E  | AMD Geode LX800 @ 500 MHz | TTL  | 1 Channel | 0    | 0 – 60° C       |
| SOM-4455F-LSA2E  | AMD Geode LX800 @ 500 MHz | TTL  | 2 Channel | 2    | 0 – 60° C       |
| SOM-4455FL-L0A2E | AMD Geode LX800 @ 500 MHz | LVDS | 1 Channel | 0    | 0 – 60° C       |
| SOM-4455FL-LSA2E | AMD Geode LX800 @ 500 MHz | LVDS | 2 Channel | 2    | 0 – 60° C       |
| SOM-4455Z-L0A2E  | AMD Geode LX800 @ 500 MHz | TTL  | 1 Channel | 0    | -20 – 80° C     |
| SOM-4455Z-LSA2E  | AMD Geode LX800 @ 500 MHz | TTL  | 2 Channel | 2    | -20 – 80° C     |
| SOM-4455ZL-L0A2E | AMD Geode LX800 @ 500 MHz | LVDS | 1 Channel | 0    | -20 – 80° C     |
| SOM-4455ZL-LSA2E | AMD Geode LX800 @ 500 MHz | LVDS | 2 Channel | 2    | -20 – 80° C     |