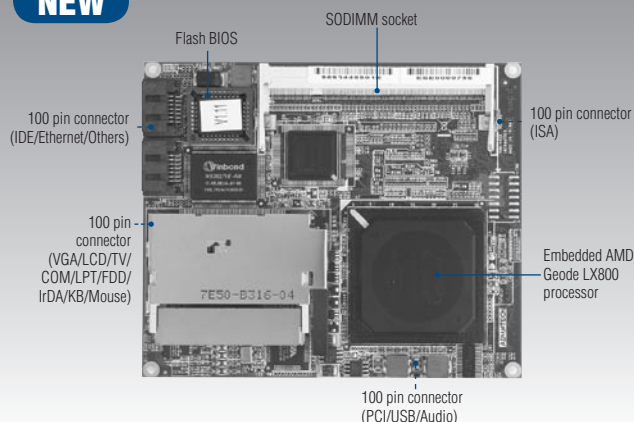


SOM-4455

**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

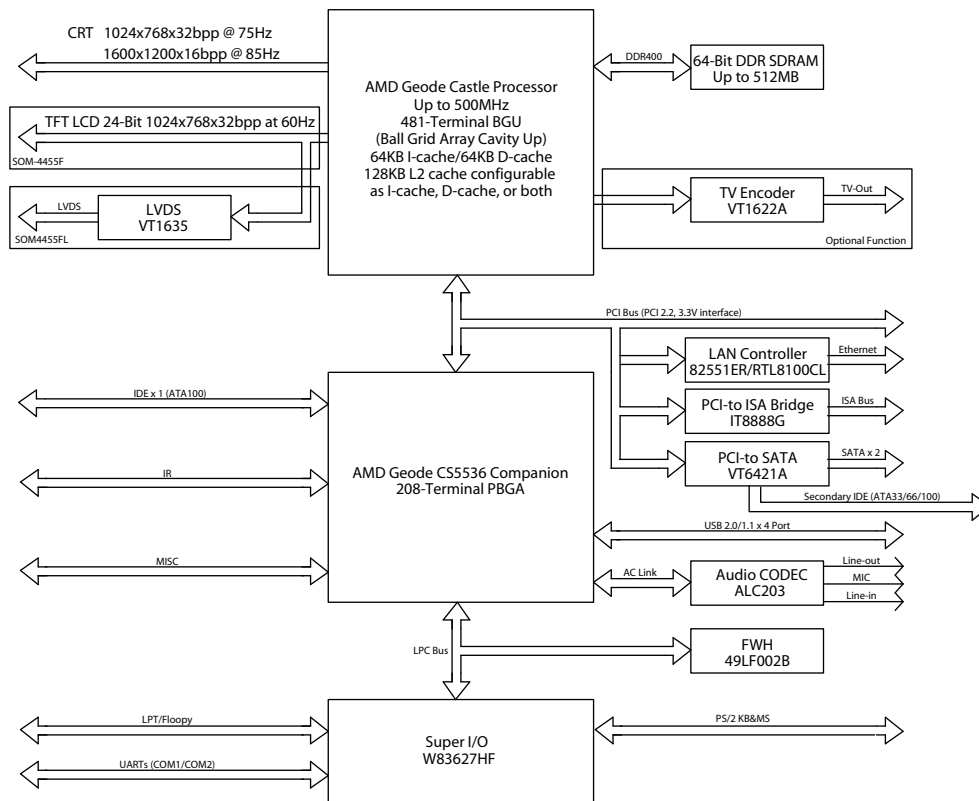
Display

- **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 \pm 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 |