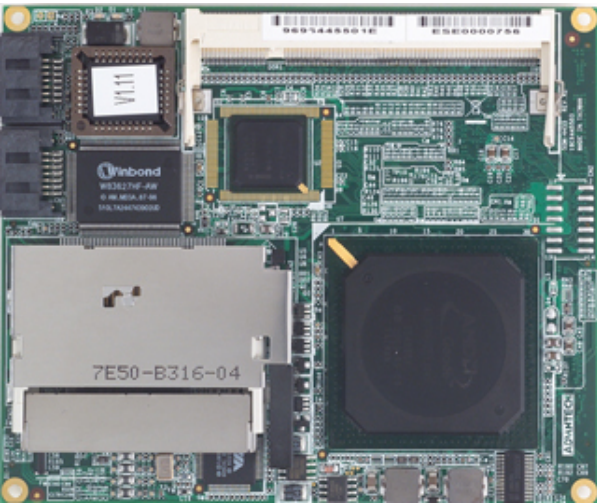


SoM-4455



Embedded Fanless AMD Geode LX800 processor

10/100 Mbps Ethernet

18-bit LCD/1 channel LVDS interface

AC'97 V 2.3 Audio

Less than 8 watts of power consumption

Optional:

Extended Temp. Version available -20 ~ 80° (call)

1960012091T00S Semi-Heatsink 114 x 96 x 15 mm

The CPU is EOL for this product, please see [this article](#) for more information.

SoM-4455 is low power consumption but high performance embedded ETX CPU module that enables customers to extend their system to ever more applications. This CPU module adopts the AMD generation Geode LX 800 series processor which offers a faster and more flexible display solution. The integrated graphic accelerator provides multiple display options: (CRT, LCD or CRT+LCD) without extra charge. For I/O, there is high speed USB 2.0 and two serial ports. Low power consumption makes it possible to save energy and make the system more reliable; all in a fanless design. All of these features make SoM-4455 the best choice for outdoor and highly reliable applications.

SoM-4455 complies with the "Green Function" standard and supports doze, standby and suspend modes. The small size board (95 mm x 114 mm) uses four high capacity connectors based on the proven SoM-ETX form factor, allowing SoM-ETX modules to be easily and securely

mounted onto a customized solution board or our standard **SOM-DB4400** development board.

SoM-ETX is a standard CPU module with all the main components on board and connects to the customer's own carrier board with 4 connectors. The customer can make the necessary designs on their own carrier board base. SoM-ETX not only significantly reduces development time but also keeps maximum design flexibility for satisfying different market demands.

Specifications

SOM Type:

PC-Comaptible ETX Modules

Processor

AMD Geode LX800

Clock Speed:

500 MHz

Real Time Clock:

Memory

BIOS/ Bootloader:

AWARD 4 Mbit Flash BIOS

Memory Misc.:

System Memory: DDR SDRAM SODIMM, Max. 1GB

System Chipset: AMD Geode LX800 + CS5536

Primary I/O

1-bit GPIO

2-bit GPE

Disk Interface:

1x EIDE Channels SATA Interface. 2x SATA-100 Channels for two SATA devices. 1x Floppy channel (shared with LPT)

Video Out:

AMD Geode LX800 integrated 2D graphic controller. Share system memory up to 32 MB. CRT/LCD/LVDS.

Audio:

AC'97 audio codec for Line out

Line in and MIC in.

Ethernet:

IEEE 802.3u 100Base-T Standard

USB:

4x USB 2.0 compliant ports

Serial Ports:

2x TTL Level Serial ports

Watchdog:	
Secondary I/O	
Keyboard:	
PS/2:	
Analog on	
D/A:	
Dimensions	
3.7 × 4.5 in	
Power Requirements	
Voltage:	
5 V	
Typical Current:	
1.5 A	
Typical Voltage:	
5 V	
Max Boot Current:	
2.2 A	
Environmental	
Low Operating Temperature:	
0 C	
High Operating Temperature:	
60 C	
Upper Operating Humidity:	
90%	
Pricing	
SoM-4455R	
AMD LX800 500 MHZ SOM-ETX MODULE w/ TFT LCD	
\$206.00	
Base Product:	
SoM-4455	
SoM-4455R1	
AMD LX800 500 MHZ SOM-ETX MODULE w/ LVDS LCD	
\$209.00	
Base Product:	
SoM-4455	
Non-Stock NCNR:	
0	
Carrier Boards:	
SoM-DB4400-0	
ETX development carrier board	
\$0.00	
Base Product:	
SoM-DB4400	