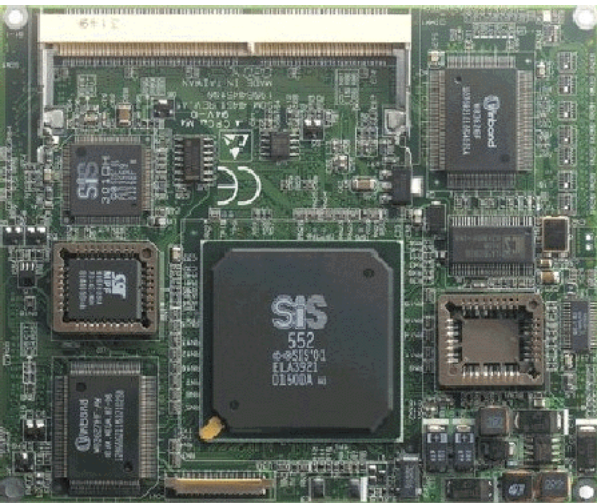


SoM-4451



Embedded Fanless Low Power SiS552 processor

10/100 Mbps Ethernet

18-bit LCD interface

AC'97 V 2.0 Audio

MPEG-2 decoder build-in for Multi-Media applications

The SoM-4451 is best choice for low end x86 applications where low cost is a priority. SoM-4451 features the SiS552 System On Chip that provides almost all of the features one would expect on a x86 PC compatible platform in a single chip. Add to this Fanless low-power operation and this ETX module may be the ideal candidate for your next embedded application.

The SoM-4451 is designed to plug into an ETX carrier board that contains all the connectors and any custom I/O required for the application. With this System On Module approach a semi-custom hardware platform can be developed in as little as a month. A

development carrier board (SoM-DB4400) is available from EMAC, allowing the user to immediately start coding their application.

Specifications

SOM Type:

EOL SOMs

Processor

Processor:

Embedded Fanless Low Power SiS552

Clock Speed:

200 MHz

Real Time Clock:

Processor Misc.:

System Chipset: SiS552 (on-chip)

Memory

BIOS/Bootloader:

AWARD 256 KB Flash BIOS

Primary I/O

Disk interface.

One EIDE Channel (Ultra DMA 66) Floppy Disk Drive Interface

1 Floppy channel (shared with LPT)

Video Out:

SiS 552 CRT/LCD 32- 64 MB shared

Audio:

AC'97 V 2.0 Audio

Ethernet:

RTL 8139C IEEE 802.3u 100 BaseT Ethernet

USB:

4x USB 1.1 compliant port

Serial Ports:

2x Serial Ports

Watchdog:

Primary I/O Misc.:

Floppy Disk Drive Interface: 1 Floppy channel (shared with LPT)

VGA/Flat-Panel Interface

Chipset: SiS552

Memory Size: Supports 32/64 MB frame buffer with system memory

Resolution CRT Mode: 1024 x 768 @ 16 bpp (60 Hz)

LCD/Simultaneous Mode: 1024 x 768 @ 16 bpp

LCD Interface: Supports 18-bit TFT LCD up to XGA resolution

LVDS: 18 bit ANSI EIA/TIA-644, over 10 meters transmission (SOM-4451FL-D0A1)

TV-out: (Optional) Supports both NTSC/PAL, S-video & Composite video

Secondary I/O

LAN Port.

Keypad:

PS/2:

Analog on

A/D.

D/A:

Dimensions

Dimensions:

3.7 × 4.5 in

Weight:

0 g

Power Requirements
Voltage:

5 V

Typical Current:

1.92 A

Typical Voltage:

5 V

Max Boot Current:

2.5 A

Environmental
Low Operating Temperature:

0 C

High Operating Temperature:

60 C

Upper Operating Humidity:

90%

Pricing
SOM-4451F

SOM-ETX SIS552 200 MHZ W/TTL LCD

\$205.00

Base Product:

SoM-4451

SoM-4451Fl

SOM-ETX SIS552 200 MHZ W/LVDS LCD

\$205.00

Base Product:

SoM-4451

SoM-DB4400-0

ETX development carrier board

\$0.00

Base Product:

SoM-DB4400

Non-Stock NCNR:

0

Source URL: <https://www.emacinc.com/content/som-4451>