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SoM-4463



Embedded Intel® Atom™ Processor N450 1.66 GHz single core/ D510 1.66 GHz dual-core + ICH8M

Fanless, 32 ~ 140° F operation (0 ~ 60° C)

ETX form factor

Supports 4 PCI, 2 SATAII, 4 USB 2.0, ISA

Powerful multimedia capability

18-bit LVDS interface

The SoM-4463 is an embedded CPU module that fully complies with the SoM-ETX form factor standard. The new CPU module supports Intel N450/D510 +ICH8M chipsets which supports PCI and ISA interfaces. In a basic form factor of 95mm x 114mm, the SoM-4463 provides a scalable cost, effective, and easy to integrate solution for customer's applications by utilizing a plug-in CPU module on an application-specific customer solution board. The SoM-4463 with advanced I/O capacity incorporates PCI, ISA, IDE, USB 2.0, SATA, and LVDS interfaces.

The SoM-4463 complies with the "Green Function" standard and supports Doze, Standby, and Suspend modes. The small size (95 mm x 114 mm) and use of four high capacity connectors based on the proven SoM-ETX form factor, allow the SoM-ETX modules to be easily and securely mounted onto a customized solution board or our standard SoM-DB4400 development board.

Specifications

SOM Type:
PC-Comaptible ETX Modules

Processor

Processor:
Intel Atom N450 / D510
Clock Speed:
1.67 GHz
Real Time Clock:
Processor Misc.:

Processor: Embedded Intel® Atom™ Processor N450 1.66 GHz single core/ D510 1.66 GHz dual-core + ICH8M

Memory

BIOS/ Bootloader:

AMI 16 Mbit Flash BIOS

Memory Misc.:

System Memory: DDR2 SODIMM x 1, Max. 2 GB(4 GB with D510)

System Chipset: ICH8M

Primary I/O

GPIO:

1-bit GPIO

2-bit GPE

Disk Interface:

1 x EIDE. 2 x SATAII

Video Out:

Intel N450/D510. DVMT 3.0 support up to 128 MB. CRT/LVDS.

Audio:

Realtek ALC888 AC97 codec

Ethernet:

10/100 Mbps

USB:

4x USB 2.0 compliant ports

Watchdog:

Secondary I/O

LPT Port:

Keypad:

PS/2:

Analog on

A/D:

D/A:

Dimensions

Dimensions:

3.7 × 4.5 in

Power Requirements

Voltage:

5 V

Typical Voltage:

5 V

Max Boot Current:

2.58 A

Power Misc.:

Power Requirements: Max.: +5V @ 2.58 A (D510 w/1GB DDR2 memory))

Environmental

Low Operating Temperature:

0 C

High Operating Temperature:

60 C

Upper Operating Humidity:

90%

Pricing

SoM-4463N
Atom N450, VGA/LVDS/LAN/Audio
$284.00
Base Product:
SoM-4463
SoM-4463D
Atom D510, VGA/LVDS/LAN/Audio
$305.00
Base Product:
SoM-4463
SoM-4463NZ
Atom N450, VGA/LVDS/LAN/Audio/Wide Temp
$351.00
Base Product:
SoM-4463
SoM-4463DZ
Atom D510, VGA/LVDS/LAN/Audio/Wide Temp
$373.00
Base Product:
SoM-4463
SoM-4463NZ2
Atom N450, VGA/LVDS/LAN/Audio/Ind. Temp
$457.00
Base Product:
SoM-4463
SoM-4463DZ2
Atom D510, VGA/LVDS/LAN/Audio/Ind. Temp
$478.00
Base Product:
SoM-4463
Non-Stock NCNR:
0
Carrier Boards:
SoM-DB4400-0
ETX development carrier board
$0.00
Base Product:
SoM-DB4400

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