

SOM-7565

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CPU- Intel Atom N2800 1.86GHz, 2 x 512KB L2 Cache/ N2600 1.6GHz, 2 x 512 KB L2 Cache

System Chipset- NM10

BIOS- AMI EFI 16Mb

Technology- N2800: DDR3 1066, N2600: DDR3 800/ N2800: Upto 4GB, N2600: Up to 2 GB

Max. Capacity- Onboard up to 4GB

Chipset- Intel Gfx integrated in Atom Processor

Graphic Engine- Intel GMA3650 640MHz for N2800, GMA3600 400MHz for N2600, supports DX9, OGL 3.0, MPEG2/ VC1/ H.264 HW Decoder

LVDS- 18-bit up to 13 x 768

DDI- 1 port shared, HDMI/ DVI up to 1920 x 1200, DP up to 1600 x 1200

Dual Display- LVDS + HDMI/DVI/ DP

Chipset- Intel 82574L Gigabit Ethernet

Speed- 10/ 100/ 1000 Mbps

Watchdog Timer- 65536 level timer interval, from 0 ~ 65535 sec, multi-level, multi-option watchdog timer

Expansion- 3PCle x 1, LPC, SMBus, 12C Bus

SATA- 1 port, SATAII 3.0Gb/s compliant (2 port optional while remove onboard flash)

Onboard Flash- MLC 4GB/8GB or SLC 4GB

USB

8 USB 2.0

Audio- High definition audio interface

GPIO- 8-bit GPIO

Power Type- ATX, AT

Power Supply Voltage- ATX mode: 4.75 ~ 20V, VSB: 4.75 ~ 5.25V (Note: Vin must >= VSB,) AT mode: Vin: 4.75 ~ 20V

Power Consumption (Typical)- N2600: 7.0W @ Vin=12V, N2800: 8.0W @ Vin=12V

Power Consumption (Max)- N2600: 8.6W @ Vin=12V, N2800: 9.5W @ Vin= 12V

Temperature- Operating: 0 ~60 C, Storage: -40 ~ 85 C

Humidity: Operating: 40 C @ 95% relative humidity, non-condensing, Storage : 60 C @ 95% relative humidity, non-condensing

Dimensions- 84 x 55mm (3.3" x 2.17")

SOM-7565 A2 is a COM-Express Mini module with pin-out Type 10 that fully complies with the PICMG (PCI Industrial Computer Manufacturers Group) COM.0 R2.1 specification. The new CPU module uses an Intel Atom processor N2800/N2600 which contains Intel GFX Core GMA3600 supports full MPEG2, AVC/H.264, and VC- 1 HW decode/acceleration, with NM10 chipset which supports advanced expansion interface like PCI Express and I/O interface like Serial ATA (SATA), USB2.0. In a COM-Mini form factor of 84mm x 55mm, SOM-7565 A2 provides a balance of high performance and easy to integrate solution for customers' applications by utilizing a plug-in CPU module on an application-specific customer solution board. With advanced interfaces like PCI Express, SATA, USB 2.0, and HDMI/DVI/DP interfaces, it provides not only high speed/performance but also small pin-count that user easy to integrate in to system. SOM-7565 A2 offers design partners more choices for their own applications needing higher computing speeds while maintaining a compact form factor

Specifications

SOM Type:

COM Express Modules

Processor

Intel Atom N2600 series

Clock Speed:

1.6 GHz

Real Time Clock:

Processor Misc.:

Intel Atom Processor N2800 1.86 GHz, 2 x 512 KBL2 Cache

Intel Atom Processor N2600 1.6 GHz, 2 x 512 KBL2 Cache

Memory

BIOS/ Bootloader:

AMI 16 Mbit Flash BIOS

Primary Flash:

MLC 4GB/8GB

Secondary Flash:

SLC 4GB or SATA

Memory Misc.:

Supports DDR3 800 MHz

Primary I/O
GPIO.

1x 8-bit GPIO

Disk Interface:

2x SATA (second SATA interface used by onboard flash)

Video Out:

DP & LVDS

Audio:

High definition audio interface

Ethernet:

Intel 82574L Gigabit Ethernet

USB:

8x USB 2.0 Ports

Serial Ports:

1x Serial Port (2x Serial Ports Optional while remove On-board Flash)

Watchdog:

Primary I/O Misc.:

SATAII 3.0Gb/s compliant

Secondary I/O
LPT Port.

Keypad:

PS/2:

Expansion
Bus Misc..

3 PCIe x1, LPC

Analog
A/D.

D/A:

Dimensions
Dimensions.

3.3 × 2.17 in

Form Factor:

COM EXPRESS Mini

Dimensions Misc.:

Passive Heatsink 84L x 55W x 13.2H mm (0 ~ 60° C)

Power Requirements
Voltage.

12 V

Power Misc.:

Power Type- ATX, AT

Power Supply Voltage

ATX mode: Vin: 4.75 ~ 20V VSB: 4.75 ~ 5.25V (Note: Vin must >=VSB) AT mode: Vin: 4.5 ~ 20V

Power Consumption (Typical)- N2600: 7.0W @ Vin=12V, N2800:8.0W @ Vin=12V

Power Consumption (Max)- N2600: 8.6W @ Vin=12V, N2800: 9.5W @ vin=12V

Environmental
Low Operating Temperature:
0 C

High Operating Temperature:
60 C

Upper Operating Humidity:
95%

Environmental Misc.:
Optional temperature Operating: -40 ~ 85° C (-40 ~ 185° F)

Pricing
SOM-7565M4-S6

SOM-7565M4-S6A2E, UCOMeT10, N2600 2x1.6GHz, 2GB, 4GB MLC, 1x SATA, 2x COM, 8x USB2, GbE, DDI, LVDS
\$294.00
Order:
0

Parent Product:
SOM-7565

Base Product:
SOM-7565
SOM-7565M8-S8

SOM-7565M8-S8A2E, UCOMeT10, N2800 2x1.86GHz, 2GB, 8GB MLC, 1x SATA, 2x COM, 8x USB2, GbE, DDI, LVDS
\$365.00
Order:
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Parent Product:
SOM-7565

Base Product:
SOM-7565
SOM-7565S0-S6

SOM-7565S0-S6A2E, UCOMeT10, N2600 2x1.6GHz, 2GB, 2x SATA, 2x COM, 8x USB2, GbE, DDI, LVDS
\$325.00
Order:
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Parent Product:
SOM-7565

Base Product:
SOM-7565
SOM-7565S0Z2-S6

SOM-7565S0Z2-S6A2E, UCOMeT10, N2600 2x1.6GHz, 2GB RAM, 1x SATA, 2x COM, 8x USB2, GbE, DDI, LVDS (-40~85C)
\$495.00
Build to Order

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SOM-7565
Base Product:
SOM-7565
SOM-7565S0Z-S6
SOM-7565S0Z-S6A2E, UCOMeT10, N2600 2x1.6GHz, 2GB RAM, 1x SATA, 2x COM, 8x USB2, GbE, DDI, LVDS (-20~80C)
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