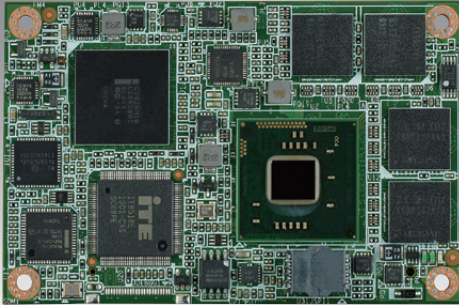


SOM-7565 A2

Intel® Atom™ Processor N2000
Series COM Express Mini Module
Pin-out Type 10

NEW



iManager susiAccess CE FCC

Features

- Embedded Intel® Atom™ Processor N2800 + NM10
- Intel GMA3600 supports DX9 and OGL 3.0, MPEG2/VC1/H.264 HW Decoder
- Supports onboard memory DDR3 1066 up to 4GB
- Supports onboard flash up to MLC 8G
- Supports 3 PCIe x1, 1 GbE, 1 SATA, 8 USB2.0, LPC, SMBus, I²C Bus
- Supports iManager, SUSIAccess and Embedded Software APIs

Software APIs:



Watchdog



I²C



SMBus



H/W Monitor



GPIO



Brightness Control

Utilities:



BIOS flash



Monitoring

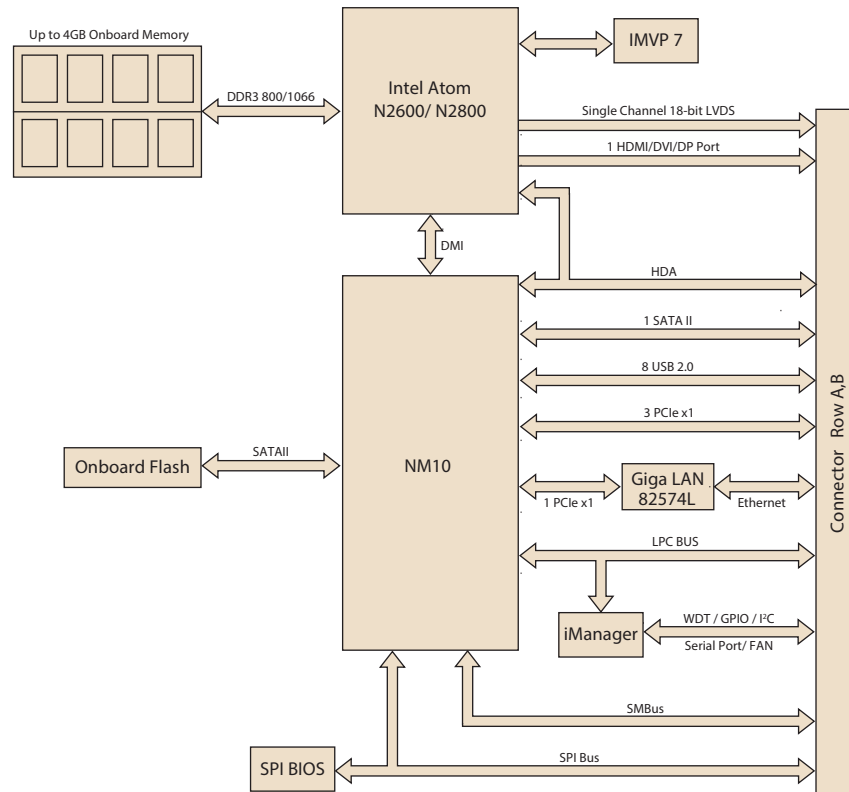


Embedded Security ID

Specifications

Form Factor	COM-Express R2.1 Mini Module, Pin-out Type 10	
Processor System	CPU	Intel Atom Processor N2800 1.86GHz, 2 x 512 KB L2 Cache
	System Chipset	NM10
	BIOS	AMI 16 Mbit Flash BIOS
Memory	Technology	Supports DDR3 1066MHz for N2800
	Max. Capacity	Onboard up to 4GB
Display	Chipset	Intel Gfx integrated in Atom Processor
	Graphic Engine	Intel Gfx 640 MHz for N2800, supports DX9, OGL 3.0, MPEG2/VC1/H.264 HW Decoder
	LVDS	18-bit up to 1366 x 768
	HDMI/DVI/DP	1 port shared, HDMI/DVI up to 1920 x 1200, DP up to 1600 x 1200
	Dual Display	LVDS + HDMI/DVI/DP
Ethernet	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	3 PCIe x1, LPC, SMBus, I ² C Bus	
I/O	SATA	1 port, SATAIII 3.0Gb/s compliant (2 port optional while remove onboard flash)
	Onboard Flash	MLC 8GB
	USB	8 USB 2.0
	Audio	High definition audio interface
	GPIO	8-bit GPIO
Power	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: 4.75 ~ 20V
	Power Consumption (Typical)	8.07W @ Vin=12V
	Power Consumption (Max, test in Burn-in Test V6.0 Pro)	9.52W @ Vin=12V
Environment	Temperature	Operating: 0 ~ 60° C (32 ~ 140° F) Storage: -40 ~ 85° C (-40 ~ 185° F)
	Humidity	Operating: 40° C @ 95% relative humidity, non-condensing Storage: 60° C @ 95%relative humidity, non-condensing
Mechanical	Dimensions	84 x 55 mm (3.3" x 2.17")

Block Diagram



Ordering Information

Part No.	CPU	L2 Cache	Chipset	Onboard Memory	Onboard Flash	LVDS	HDMI/DVI/DP	PCIe x1	HD Audio	GbE	SATAII	USB 2.0	LPC	SMBus	Thermal Solution	Operating Temperature
SOM-7565M8-S8A2E	Atom N2800	1 MB	NM10	4 GB	MLC 8GB	18-bit	1	3	Yes	1	1	8	Yes	Yes	Passive	0 ~ 60° C

Note: Passive = fanless; Active = with fan

Development Board

Part No.	Description
SOM-DB5800-U0A2E	COM-Express Development Board A2 Type 10Pin-out

Packing List

Part No.	Description	Quantity
-	SOM-7565 CPU Module	-
1960055344N001	Heatspreader	1

Optional Accessories

Part No.	Description
1960056280N001	Semi-Heatsink 84L x 55W x 13.2H mm (0 ~ 60° C)
96LEDK-I057VG50NA1	5.7" LED PANEL 500N 640 x 480(G)
96LEDK-A084SV45NB2	8.4" LED PANEL 450N 800 x 600(G) G084SN05 V9 (V901)