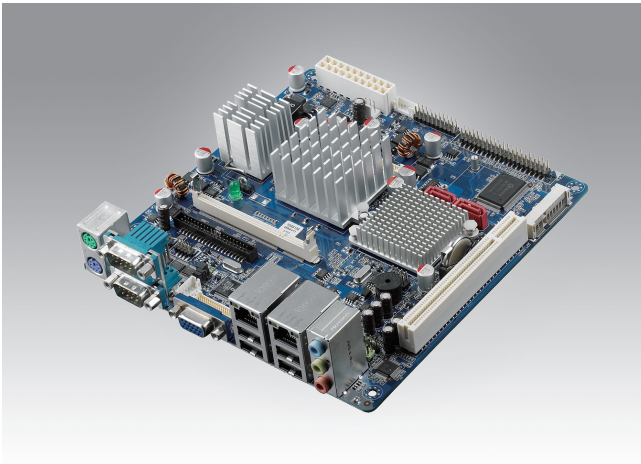


# SIMB-M03

## Intel® Atom™ Processor Mini-ITX with VGA/LVDS, 4 COM and DUAL LAN



### Features

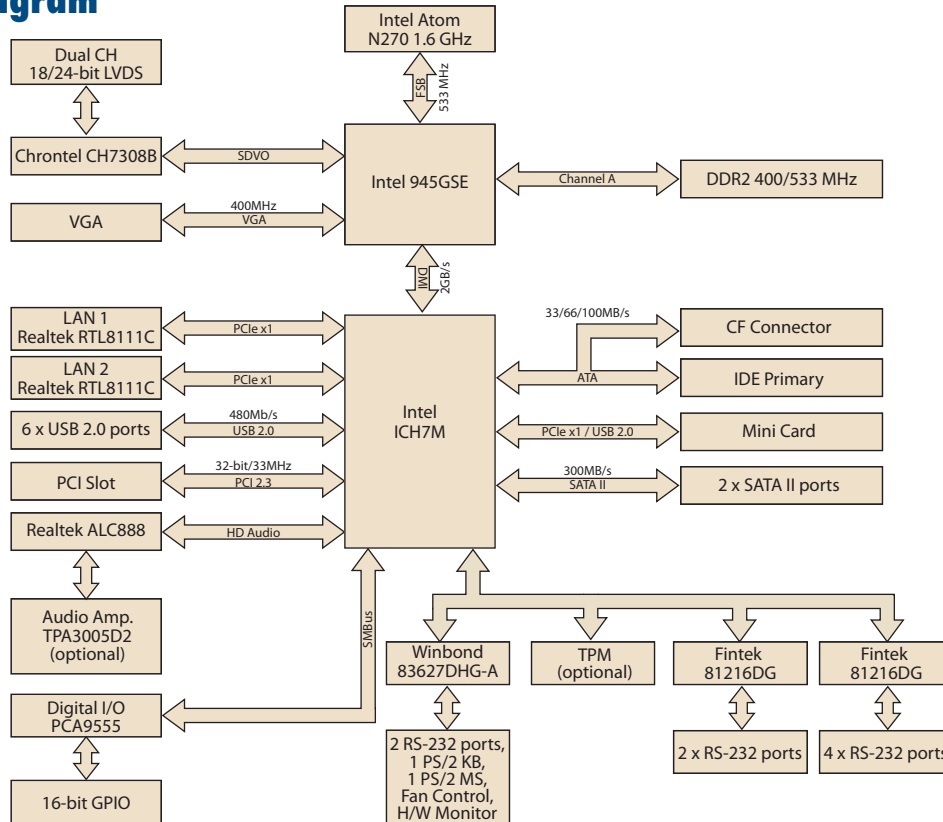
- Onboard 45nm Intel® Atom™ processor N270
- Intel 945GSE + ICH7M chipset
- One 200-pin SODIMM up to 2GB single channel DDR2 533 SDRAM, non-ECC
- Intel Graphics Media Accelerator 950
- Supports dual display function : VGA + LVDS
- One 24/18-bit dual channel LVDS
- Realtek ALC888, 5.1 + 2 channel HD Audio
- Dual Realtek RTL8111C Gigabit LAN
- 1 PCI, 1 mini PCIe
- 8 COM RS-232, 6 USB 2.0, 2 SATA II, 1 IDE



### Specifications

Processor System	CPU	Onboard 45nm Intel Atom processor N270		
	Max. Speed	1.6 GHz		
	L2 Cache	512 KB		
	Chipset	Intel 945GSE + ICH7M		
	BIOS	Award 16Mb, SPI		
Expansion Slots	Front Side Bus	533 MHz		
	PCI	32-bit/33 MHz, 1 slot		
	PCIe x16	-		
	PCIe	-		
Memory	Mini-PCIe	250 MB/s per direction, 1 slot		
	Technology	Single channel DDR2 533 MHz SDRAM		
	Max. Capacity	2 GB		
Graphics	Socket	1 x 200-pin SODIMM		
	Controller	Intel® Graphics Media Accelerator 950 integrated		
	VRAM	Shared system memory up to 224 MB SDRAM		
	VGA	Supports up to QXGA (2048 x 1536)		
	LVDS	Dual channel 18/24-bit UXGA (1600 x 1200)		
	DVI	-		
	HDMI	-		
Ethernet	Dual Display	VGA + 18-bit LVDS or VGA + 24-bit LVDS		
	Interface	10/100/1000 Mbps		
	Controller	GbE-LAN1: Realtek RTL8111C, GbE-LAN2: Realtek RTL8111C		
SATA	Connector	RJ-45 x 2		
	Max Data Transfer Rate	300 MB/s		
EIDE	Channel	2		
	Mode	ATA 100/66/33		
SSD	Channel	1 (max. 2 devices)		
	CompactFlash	Supports CompactFlash Type I/II		
Rear I/O	VGA	1		
	DVI	1		
	Ethernet	2		
	USB	4		
	Audio	3 (Line-out, Line-in, Mic-in)		
	Parallel	-		
	Serial	2 (RS-232)		
Internal Connectors	PS/2	2 (1 x keyboard and 1 x mouse)		
	LVDS & Inverter	1		
	DVI	-		
	USB	2		
	Serial	6 (2 x RS-232 w/ and 4 x RS-232 w/o power)		
	IDE	1		
	SATA	2		
	CompactFlash	1		
	Parallel	-		
	GPIO	16-bit (8-bit DI and 8-bit DO)		
Watchdog Timer	Output	System reset		
	Interval	Programmable 1~ 255 sec/min		
Security	TPM	Onboard TPM 1.2 by Infineon SLB9635 (Optional)		
	Power On	Intel Atom N270 1.6GHz, 2 GB DDR2 SDRAM		
Power Requirement	+12 V	+5 V	+3.3 V	5 VSV
	1.19 A	1.32 A	0.80 A	0.48 A
Environment	Temperature	Operating		Non-Operating
	Dimensions	0 ~ 60° C (32 ~ 140° F)		-20 ~ 70° C (-4 ~ 158° F)
Physical Characteristics	Weight	170 x 170 mm (6.69" x 6.69")		
		0.40 Kg (0.88 lbs)		

### Block Diagram



### Ordering Information

P/N	CPU	Chipset	VGA	GbE	USB	COM	SATA
SIMB-M03-1G2S6A1E	Intel Atom N270	Intel 945GSE + ICH7M	1	2	6 (4 Rear, 2 Internal)	4 Rs-232 (2 Rear, 2 Internal)	2 SATA II

Note: Minimum order quantity is 200 pieces

### Packing List

Description	Quantity
SATA cable kit (SATA/POWER)	1
I/O Shield	2
Serial port cable	2
IDE cable	1
Startup manual	1
Driver CD	1 (per 10 units)

### Optional Accessories

Part Number	Description
1700003195	USB cable with two ports, 17.5 cm
1700002204	USB cable with two ports, 27 cm
1700008461	USB cable with two ports, 30.5 cm
1700008809	Printer port cable, 25 cm, w/ bracket

### I/O View

