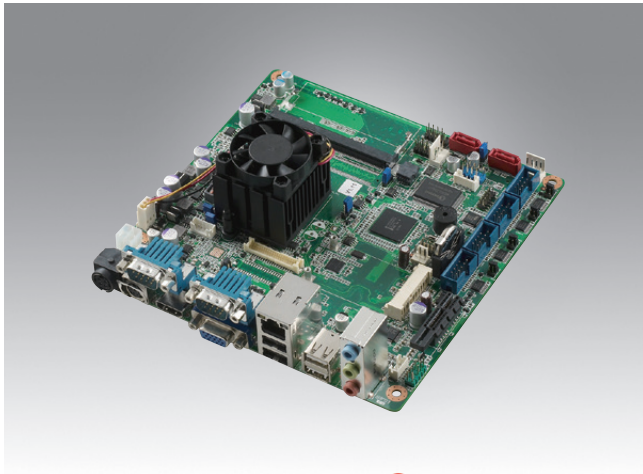


# SIMB-M02

Intel® Atom™ Mini-ITX with  
VGA/LVDS/HDMI, 6 COMs and LAN



## Features

- Intel® N2600 / D2550 processor
- Intel NM10 chipset
- Intel integrated SGX545 support DirectX 10.1
- One 204-pin SODIMM socket supports up to 4GB DDR3 1066MT SDRAM
- Realtek 8111E LAN
- Supports multiple dual display functions : VGA, HDMI, Single channel 18/24-bit LVDS
- 1 x PCIe x 1, 1 x Full Size Mini-PCIe, 1 x CFast (Optional)
- 6 COM (with power), 2 SATA II
- 7 USB 2.0, TPM 1.2 (Optional)

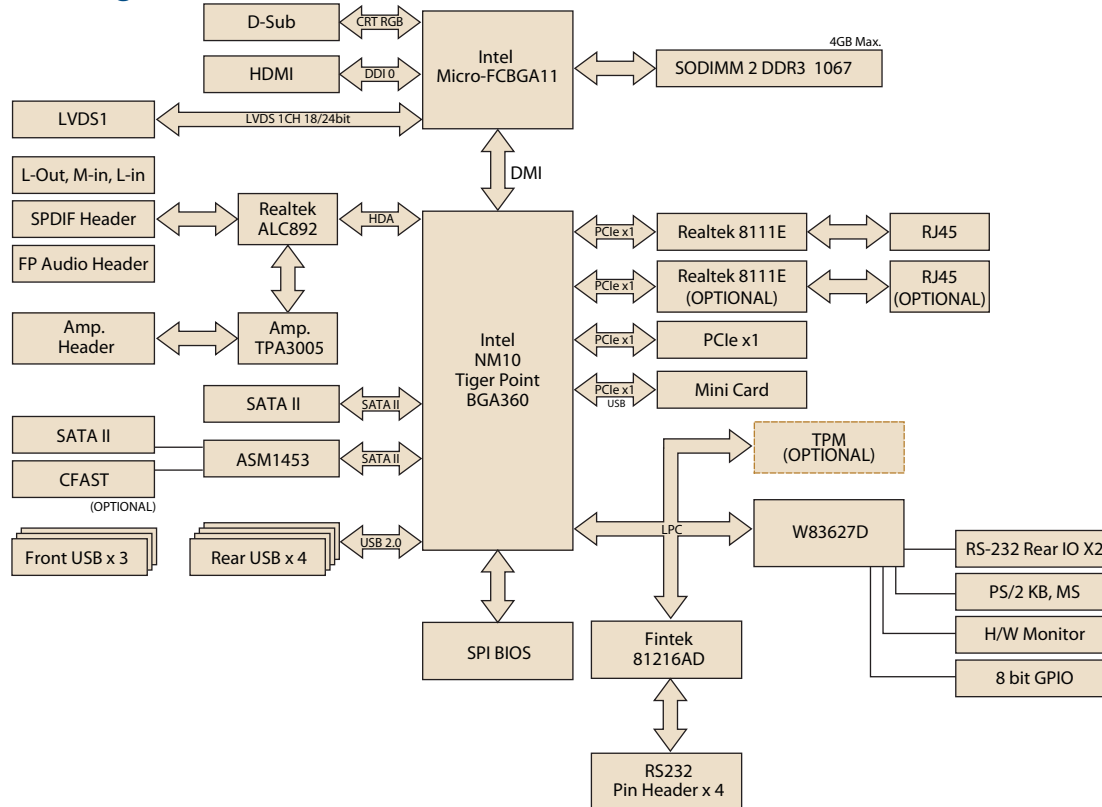


"N2600" series only

## Specifications

Processor System	CPU	N2600	D2550
	Core Number	2	2
	Max. Speed	1.6 GHz	1.86 GHz
	L2 Cache	1 MB	1M
	Chipset	Intel NM10	
	BIOS	FHW 16Mbit, SPI	
Expansion Slots	PCIe	1	
	Full Size Mini-PCIe	1	
Memory	Technology	Single channel DDR3 1066 MHz	
	Max. Capacity	2 GB (for N2600), 4 GB (for D2550)	
	Socket	1 x 204-pin SODIMM	
Graphics	Controller	Intel Graphics Media Accelerator HD 3650	
	VGA	Supports max. resolution 1920 x 1200	
	LVDS	Single channel 18/24-bit LVDS supports max resolution 1366 x 768	
	HDMI	HDMI 1.3 supports max resolution 1920 x 1200	
	Dual Display	VGA + LVDS, VGA + HDMI, LVDS + HDMI	
Ethernet	Interface	10/100/1000 Mbps	
	Controller	Realtek 8111E LAN	
	Connector	RJ-45 x 1	
SATA	Max Data Transfer Rate	300 MB/s (SATA II)	
	Channel	2	
SSD	CFast	Optional (co-lay with SATA II, if it is used, only 1 SATA II can be used)	
Rear I/O	VGA	1	
	HDMI	1	
	Ethernet	1	
	USB	4 (USB 2.0)	
	Audio	3 (Line-out, Line-in, Mic-in)	
	Serial	2 (RS-232 with R1/5V/12V power)	
	PS/2	1 port (support Y cable)	
Internal Connectors	LVDS & Inverter	1	
	USB	3 (Pin-header)	
	Serial	4 (RS-232 with R1/5V/12V power)	
	SATA	2 SATA II	
	GPIO	8-bit (4-bit DI and 4-bit DO)	
Watchdog Timer	Output	System reset	
	Interval	Programmable 1~ 255 sec/min	
Security	TPM	Optional	
Power Requirements	Typical	Single Voltage 12V DC input by 1 x External DC Jack or 1 x Internal 2x2-pin Power Connector	
		To be measured	
Environment	Temperature	Operating	Non-Operating
		0 ~ 50° C (32 ~ 122° F)	-20 ~ 70° C (-4 ~ 158° F)
Physical Characteristics	Dimensions	170 x 170 mm (6.69" x 6.69")	

## Block Diagram



## Ordering Information

P/N	CPU	Chipset	VGA	GbE	USB	COM	SATA
SIMB-M02-N2600A1E	Intel N2600 Processor	Intel NM10	1	1	7 (4 Rear, 3 Internal)	6 x RS-232 (2 Rear, 4 Internal)	2 SATA II
SIMB-M02-D2500A1E	Intel D2550 Processor	Intel NM10	1	1	7 (4 Rear, 3 Internal)	6 x RS-232 (2 Rear, 4 Internal)	2 SATA II

## Packing List

Description	Quantity
SATA cable kit (SATA/POWER)	1
I/O shield	1
CPU Cooler	1 (D2550 only)
CPU Heatsink	1 (N2600 only)
Startup manual	1 (per 20 units)
Driver CD	1 (per 20 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
SIMB-0ADP-90W1E	Power Adapter 90W DC12V / 7.5A

Warning: It is highly recommended to purchase SIMB-0ADP-90W1E with the board, as its power PIN definition is customised to meet this board requirement.

## I/O View

