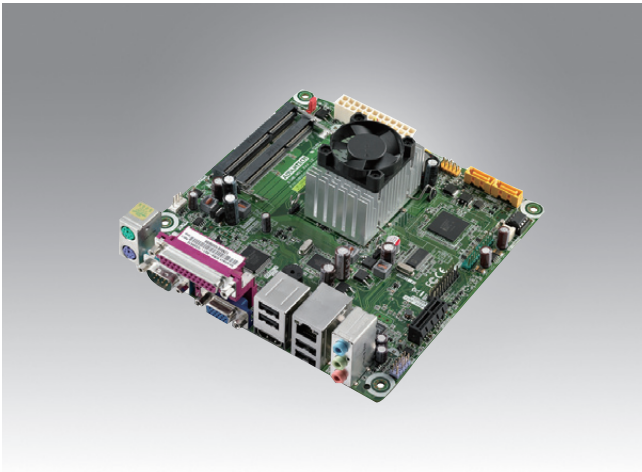


# SIMB-M01

Intel® Atom™ D525 Mini-ITX with  
VGA/HDMI, 2 COM and LAN



## Features

- Two chipset architecture
- Supports Intel® Atom™ dual core processor D525 platform
- Intel Graphics Media Accelerator 3150
- Supports VGA + HDMI dual display function
- Realtek RTL8111E supports Gigabit LAN
- Realtek ALC662 supports 5.1 channel HD audio
- 2 SATA II, 1 PCIe x1, 2 COM RS-232, 8 USB 2.0, 1 LPT, TPM header

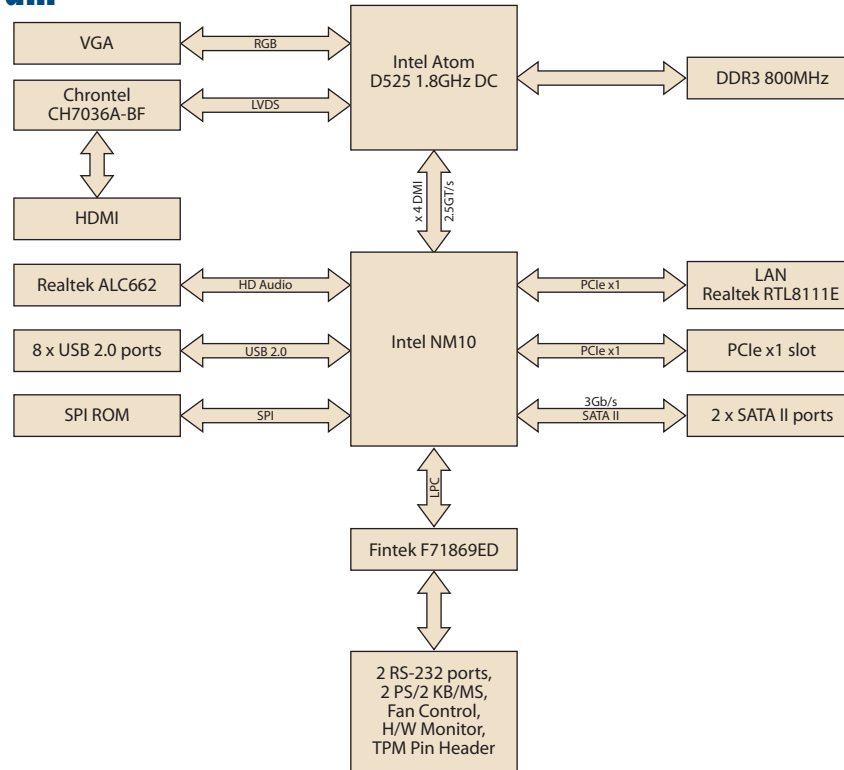


CE FCC

## Specifications

Processor System	CPU	Intel Atom D525			
	Core Number	2			
	Max. Speed	1.8 GHz (dual core)			
	L2 Cache	1 MB			
	Chipset	Intel NM10			
	BIOS	AMI 32 Mbit, SPI			
	DMI	2.5GT/s			
Expansion Slot	PCIe x1	250 MB/s per direction, 1 slot			
Memory	Technology	Single channel DDR3 800 MHz SDRAM			
	Max. Capacity	4 GB			
	Socket	2 x 204 pin DDR3 SODIMM			
Graphics	Controller	Intel Graphics Media Accelerator 3150 integrated			
	VRAM	Shared system memory up to 224 MB SDRAM			
	VGA	1, supports up to SXGA 2048 x 1536 @ 60 Hz			
	HDMI	1, supports up to 1920 x 1080			
	Dual Display	VGA + HDMI			
Ethernet	Interface	10/100/1000 Mbps			
	Controller	Realtek RTL8111E			
	Connector	RJ-45 x 1			
SATA	Max Data Transfer Rate	SATA II 300 MB/s			
	Channel	2			
Rear I/O	VGA	1			
	HDMI	1			
	Ethernet	1			
	USB	4 (USB 2.0)			
	Audio	3 (Line-out, Line-in, Mic-in)			
	Parallel	1 (LPT)			
	Serial	1 (RS-232)			
	PS/2	2 (1 x keyboard and 1 x mouse)			
Internal Connectors	USB	4 (USB 2.0)			
	Serial	1 (RS-232)			
	IDE	-			
	SATA	2 (SATA II)			
	Parallel	-			
	GPIO	-			
Security	TPM	TPM Header			
Power Requirements	Power On	+12 V	+5 V	+3.3 V	5 Vsb
		0.54 A	2.23 A	0.71 A	0.34 A
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-M01-1VGS8A1E	Intel Atom D525	Intel NM10	1	1	8 (4 Rear, 4 Internal)	2 RS-232 (1 Rear, 1 Internal)	2 SATA II

Note: Minimum order quantity is 200 pieces

### Packing List

Description	Quantity
SATA cable kit (SATA/POWER)	1
I/O shield	1
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

### I/O View

