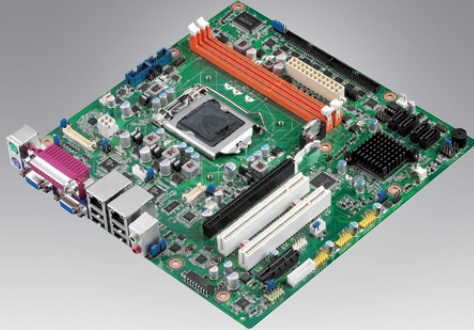


# AIMB-501

Intel® Core™ i7/i5/i3 LGA1155 MicroATX with CRT/DVI/LVDS, 10 COM, 10 USB 2.0, Dual LAN, and DDR3

**NEW**



Quiet susiAccess RoHS COMPLIANT CE FCC

## Features

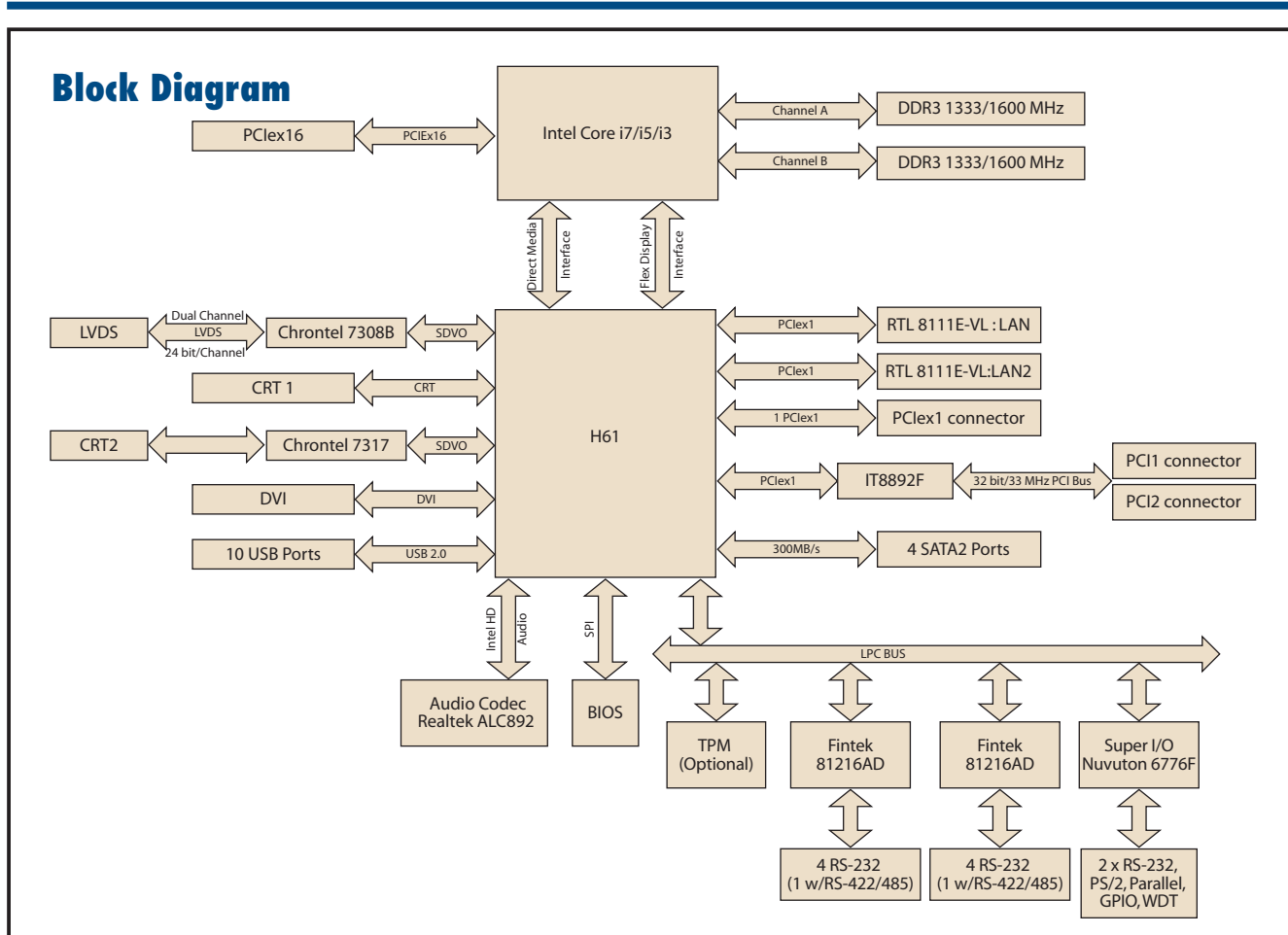
- Supports Intel® Core™ i7/i5/i3 processor with H61 chipset
- Two DIMM sockets support up to 16 GB DDR3 1600/1333 MHz SDRAM
- Supports dual display of VGA, DVI, LVDS and two GbE LAN
- Supports 10 COM, 10 USB 2.0, TPM 1.2 (optional)
- Supports SUSIAccess, McAfee, Acronis and Embedded Software APIs

Software APIs: SMBus H/W Monitor Watchdog GPIO

Utilities: BIOS flash Monitoring

## Specifications

Processor System	CPU	Intel Core i7-3770	Intel Core i5-3550S	Intel Core i3-3220	Intel Core i7-2600	Intel Core i5-2400	Intel Core i3-2120	Pentium G850	Celeron G540	
	Core Number	4	4	2	4	4	2	2	2	
	Max. Speed	3.4 GHz	3.0 GHz	3.3 GHz	3.4 GHz	3.1 GHz	3.3 GHz	2.9 GHz	2.50 GHz	
	Integrated Graphics	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	L3 Cache	8 MB	6 MB	3 MB	8 MB	6 MB	3 MB	3 MB	2 MB	
	Chipset	H61								
Expansion Slot	BIOS	AMI EFI 64 Mbit SPI								
	PCI	32-bit/33 MHz, 2 slots								
	PCIe x1 (Gen2)	500MB/s per direction, 1 slot								
Memory	PCIe x16 (Gen3)	16 GB/s per direction, 1 slot								
	Technology	Dual Channel DDR3 1600/1333 MHz SDRAM								
	Max. Capacity	16 GB								
Graphics	Socket	2 x 240-pin DIMM								
	Controller	Intel HD Graphics								
	VRAM	1GB maximum shared memory with 2GB and above system memory installed								
	LVDS	Support 18/24bit, 36/48bit single/dual channel								
	CRT	Yes, supports max. resolution 2048 x 1536								
	DVI	1 (Optional)								
Ethernet	Dual Display	CRT1+LVDS, CRT1+DVI; CRT1+CRT2								
	Interface	10/100/1000 Mbps								
	Controller	GbE LAN: Realtek 8111E								
SATA	Connector	RJ45 X 2								
	Max Data Transfer Rate	300 MB/s (SATA 2.0)								
Rear I/O	Channel	4								
	CRT	2								
	DVI	-								
	Ethernet	2								
	USB	4								
	Parallel	1								
	Audio	2 (Mic-in, Line-out)								
	Serial	-								
Internal Connector	PS/2	2 (1 x keyboard and 1 x mouse)								
	USB	6 (USB 2.0 compliant)								
	Serial	10 (8 x RS-232. COM 3/7 supports RS-232/422/485, supports RS-485 auto flow control. And COM1/2 with selectable 5V/12V)								
	IDE	-								
	SATA	4 x 300 MB/s (SATA 2.0)								
	LVDS & Inverter	1								
	DVI	1 (Optional)								
	IrDA	-								
Watchdog Timer	GPIO	8-bit GPIO								
	Output	System reset								
Power Requirements	Interval	Programmable 1 ~ 255 sec/min								
	Power On	5 V				+3.3 V	+12 V	-12 V	5 VSB	
Environment		2.25 A				1.05 A	6.66 A	0.13 A	0.49 A	
	Temperature	Operating							Non-Operating	
Physical Characteristics		0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution							-40 ~ 85° C (-40 ~ 185° F)	
	Dimensions	244 mm x 244 mm (9.6" x 9.6")								



## Ordering Information

Part Number	PCH	Memory	CRT	DVI	LVDS	USB 2.0	COM	TPM	LAN	PCIe x 16 slot	PCIe x 1 slot	PCI slot	AMP
AIMB-501G2-KSA1E	H61	Non ECC	2	(1)*	1	10	10	(1)	2	1	1	2	Yes
AIMB-501L-KSA1E	H61	Non ECC	1	0	0	10	2	(1)	1	1	1	0	No

\*( ) not populated on MP version.

## Riser Card

Part Number	Description
AIMB-RP10P-01A1E	1U riser card with 1 PCI expansion
AIMB-RP30P-03A1E	2U riser card with 3 PCI expansion
AIMB-RP3PF-21A1E	2U riser card with 1 PCIe x16 and 2 PCI expansion

## Packing List

Description	Quantity
Serial ATA HDD data cable	2
Com port cable kit	3
I/O port bracket	1
Startup manual	1
Driver CD	1

## I/O View



AIMB-501G2-KSA1E



AIMB-501L-KSA1E

## Optional Accessories

Part Number	Description
1700002204	USB cable with dual ports, 27 cm
1700008822	DVI cable
1960047669N001	LGA1156 CPU cooler for 4U and wallmount chassis
1700018699	KBMS cable 1*6P-2.5/DIN-6P(F)*2, 25 cm
1700000447	1-to-4 serial ports cable kit, 45cm
1701400181	1-to-4 serial ports cable kit, 18cm

Note: Purchasing AIMB-501's proprietary CPU cooler from Advantech is a must; other brands of CPU coolers are NOT compatible with AIMB-501

## Embedded OS/API

OS/API	Part No	Description
Win XPe		XPe WES 2009
Software API		SUSI V3.0 SW API for AIMB-501KS XP