

Промышленные материнские платы формата microATX серии AIMB-500

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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 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

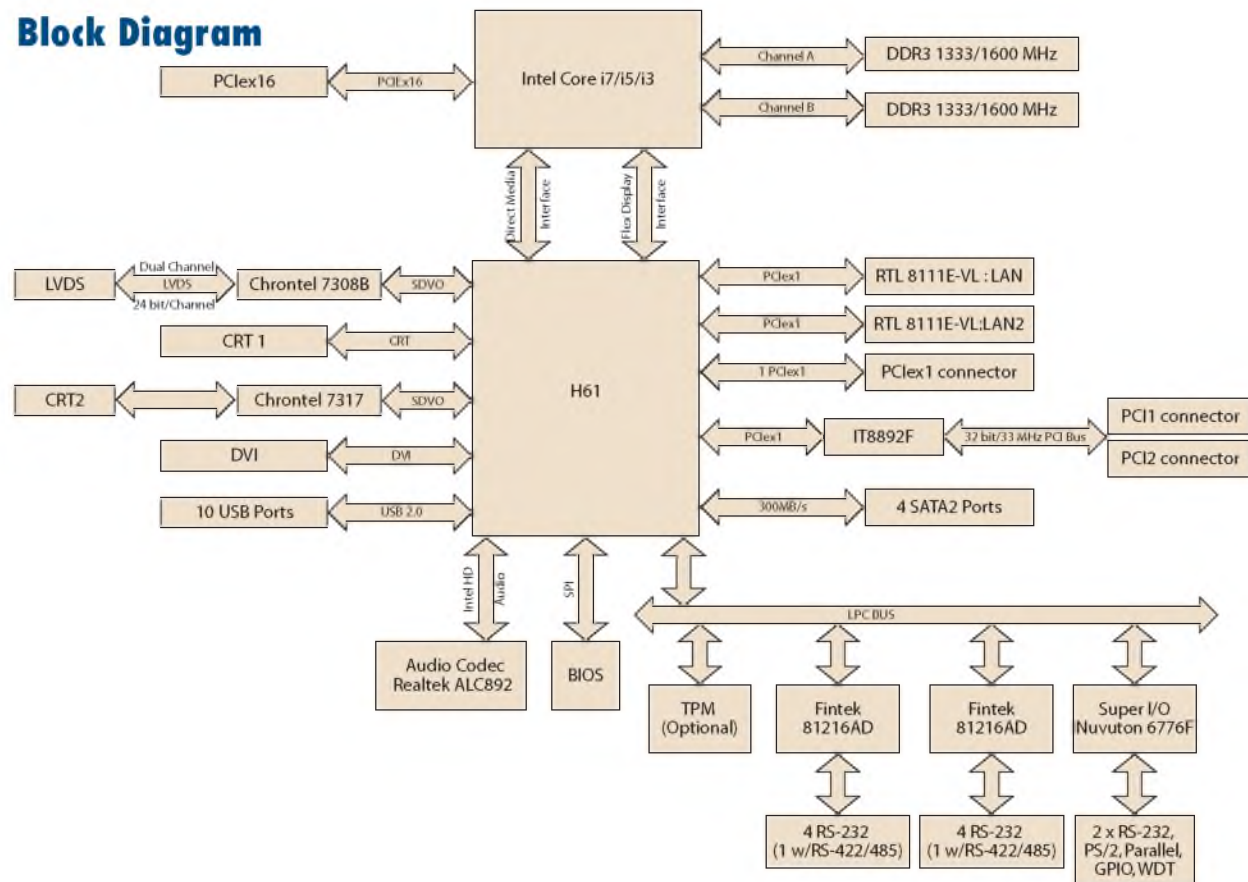
Software APIs:

Utilities:

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 Graphic	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)								
Watchdog Timer	IrDA	-								
	GPIO	8-bit GPIO								
Power Requirements	Output	System reset								
	Interval	Programmable 1 ~ 255 sec/min								
Environment	Power On	5 V			+3.3 V	+12 V	-12 V	5 VSB		
	Temperature	2.25 A			1.05 A	6.66 A	0.13 A	0.49 A		
Physical Characteristics	Operating	0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution							Non-Operating	
	Dimensions	244 mm x 244 mm (9.6" x 9.6")							-40 ~ 85° C (-40 ~ 185° F)	

Block Diagram



Ordering Information

Part Number	PCH	Memory	CRT	DVI	LVDS	USB 2.0	COM	TPM	LAN	PCIe x 1 slot	PCI slot	AMP
AIMB-501G2-KSA1E	H61	Non ECC	2	(1)	1	10	10	(1)	2	1	2	Yes
AIMB-501L-KSA1E	H61	Non ECC	1	0	0	10	2	(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

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 brand's CPU cooler are NOT compatible with AIMB-501

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

Embedded OS/API

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

I/O View



AIMB-501G2-KSA1E



AIMB-501L-KSA1E

AIMB-554

Socket 478 Core™ 2 Duo/Core Duo/Core Solo Processor-based MicroATX with DDR2/Dual GbE LAN

NEW



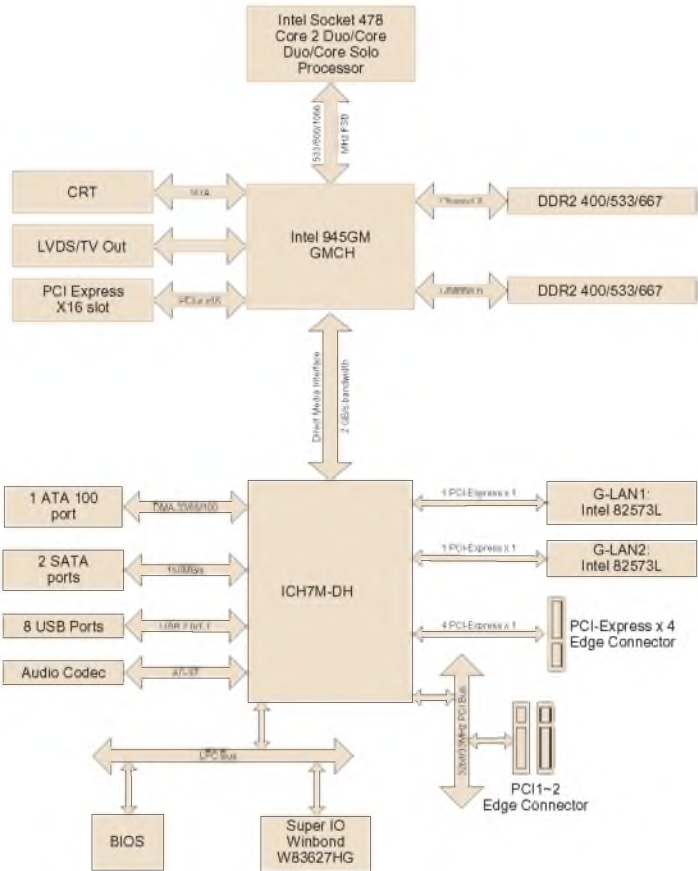
Features

- Intel® 945 GM with ICH7M-DH chipset 667 MHz FSB
- Supports dual channel DDR2 400/533/667 SDRAM up to 4 GB
- Two SATA ports with support for software Serial ATA RAID 0,1
- Supports dual 10/100/1000Base-T Ethernet via dedicated PCIe x1 bus
- Chipset integrated VGA
- PCI Express x16 interface for VGA
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup
- Supports LVDS/TV out connectors

Specifications

Processor System	CPU (65nm)	Intel® Core™ 2 Duo	Intel® Core™ Duo	Intel® Core™ Solo
	Max. Speed	2.16 GHz	2.0 GHz	1.5 GHz
	L2 Cache	2 MB/4 MB	2 MB	1 MB
	Chipset	Intel 945GM + ICH7M-DH		
	BIOS	Award® 4 Mbit FWH		
	Front Side Bus	400/533/667 MHz		
Expansion Slot	PCIe x16	4.0 GB/s per direction, 1 slot		
	PCIe x4	1.0 GB/s per direction, 1 slot		
	PCI	32-bit/33 MHz, 2 slots		
Memory	Technology	Dual channel DDR2 400/533/667 SDRAM		
	Max. Capacity	4 GB		
	Socket	240-pin DIMM x 2		
Graphic	Embedded	Chipset integrated VGA controller sharing 224 MB system memory		
	LVDS	Supports single channel 18-bit/ dual channel 36-bit		
	TV-Out	Supports both S-video and composite video (TV-out function is not supported during POST stage)		
	Add-on	PCIe x16 slot		
Ethernet	Interface	10/100/1000 Base-T		
	Controller	G-LAN1: Intel 82573L G-LAN2: Intel 82573L (2 PCIe x1)		
	Connector	RJ-45 x 2		
SATA	Max. Data Transfer Rate	150 MB/s		
	Channel	2		
EIDE	Mode	ATA 100/66/33		
	Channel	1 (Max. two devices)		
I/O Interface	VGA	1		
	LAN	1 (for VG version); 2 (for G2 vesion)		
	USB	8 (USB 2.0, 480Mbps; 4 external ports and 4 onboard pin headers)		
	Audio	2 (Line-Out and Mic-In)		
	Serial	2 (1 of RS-232/422/485 on pin header, 1 of RS-232 on rear I/O)		
	Parallel	1 (SPP/EPP/ECP)		
	FDD	1		
	PS/2	2 (keyboard and mouse)		
Watchdog Timer	Output	System reset		
	Interval	Programmable 1 – 255 sec.		
Power Requirement	Typical	Intel Core Duo-T2400 1.83GHz (667FSB) DDR2 667 1GB SDRAM X2		
		+5 V	+3.3 V	+12 V
		2.4 A	3 A	1.5 A
Environment		Operating		
	Temperature	0 ~ 60° C (32 ~ 140° F), depends on CPU's speed and cooler solution.		
Physical Characteristics	Dimensions (W x D)	244 mm x 244 mm (9.6" x 9.6")		

Block Diagram



Ordering Information

Part Number	Gigabit LAN	VGA
AIMB-554VG-00A1E	Single	Yes
AIMB-554G2-00A1E	Dual	Yes

*AIMB-554 cannot be installed in ACP-2000MB chassis

Bracket View



AIMB-554VG-00A1E



AIMB-554G2-00A1E

Packing List

Part Number	Description	Quantity
1700340640	FDD cable	x 1
1701400452	IDE HDD cable	x 1
1700003194	Serial ATA HDD data cable	x 2
1703150102	Serial ATA HDD power cable	x 2
1701090401	COM port cable kit	x 1
9689000068	Jumper pack	x 1
1960004027	I/O port bracket	x 1
-	Startup manual	x 1
-	Utility CD	x 1
1750000540	CPU cooler (for 2U and 2U+ chassis)	x 1

Accessories

Part Number	Description
1700002331	TV-out cable
1750000348	CPU cooler (for 1U chassis, ambient temperature reduce to 55 degree C)

AIMB-566

Intel® LGA775 Core™ 2 Quad/Core™ 2 Duo
MicroATX with VGA/DVI, 2 COM, and LAN

NEW



Features

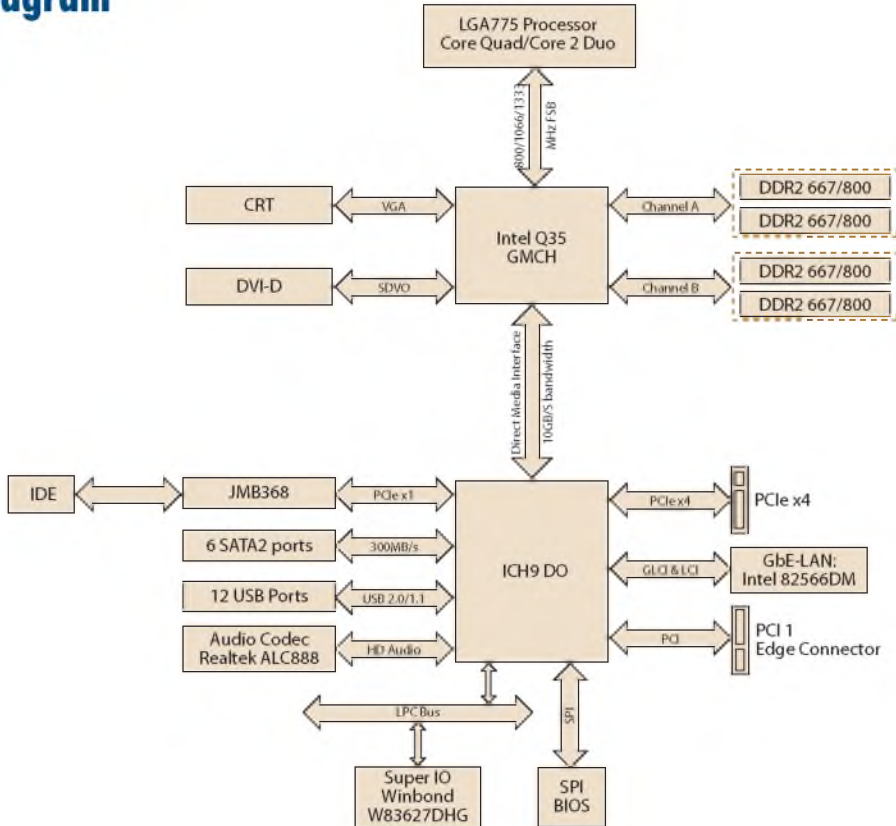
- Intel® Q35 and ICH9 DO supporting 800/1066/1333 MHz FSB
- Supports dual core and quad core process with 45nm processing
- Dual channel DDR2 667/800 SDRAM up to 8 GB
- Supports AMT 3.0
- Supports Dual Display, VGA and DVI-D
- Supports 1 PCIe x4 and 1 PCI full-length cards
- Supports 6 SATA II and software RAID 0, 1, 5, 10



Specifications

Processor System	CPU (45/65/90nm)	Intel Core 2 Quad	Intel Core 2 Duo	Intel Pentium Dual-Core	Intel Celeron D	
	Max. Speed	Q9400 2.66 GHz	E8500 3.16 GHz	E5300 2.6 GHz	356, 3.33 GHz	
	L2 Cache	6 MB	6 MB	2 MB	512 KB	
	Chipset	Intel Q35 + ICH9 DO				
	BIOS	AMI 32 Mbit, SPI				
	Front Side Bus	800/1066/1333 MHz				
Expansion Slot	PCIe x4	1 GB/s per direction, 1 slot				
	PCI	32-bit/33 MHz, 1 slot				
Memory	Technology	Dual channel DDR2 667/800 MHz				
	Max. Capacity	8 GB				
	Socket	4 x 240-pin DIMM				
Graphics	Embedded	Chipset integrated VGA controller				
	DVI	Yes, via Chronitel 7307C SDVO transmitter				
	Dual Display	CRT + DVI				
Ethernet	Interface	10/100/1000 Mbps				
	Controller	Intel 82566DM				
	Connector	RJ-45 x 1				
SATA II	Max. Data Transfer Rate	300 MB/s				
	Channel	6				
EIDE	Mode	ATA 100/66/33				
	Channel	1 (max. 2 devices)				
I/O Interface	VGA	1				
	DVI-D	1				
	USB	12				
	Audio	2 (Mic-in, Line-out)				
	Serial	2 (RS-232)				
	FDD	1				
	PS/2	2 (1 x keyboard and 1 x mouse)				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1- 255 sec/min				
Power Requirement	Power On	Intel Core 2 Quad 9300 2.5 GHz, 8 GB DDR2 800 SDRAM				
		+12 V	+5 V	+3.3 V	5 Vsb	-12 V
		3.36 A	3.15 A	2.01 A	0.88 A	0.08 A
Environment		Operating			Non-Operating	
	Temperature	0 - 60° C (32 - 140° F), depends on CPU speed and cooler solution			-20 - 70° C (-4 - 158° F)	
Physical Characteristics	Dimensions (W x D)	244 mm x 244 mm (9.6" x 9.6")				

Board Diagram



Ordering Information

	VGA	DVI	GbE	COM	SATA
AIMB-566VG-00A1E	1	1	1	2	6

Riser Card

Part Number	Description
AIMB-RP10P-01A1E	1U riser card for 1 PCI expansion
AIMB-RP30P-03A1E	2U riser card for 3 PCI expansion

Bracket View



AIMB-566VG-00A1E

Packing List

Description	Quantity
IDE HDD cable	x 1
Floppy cable	x 1
Serial ATA HDD data cable	x 2
Serial ATA HDD power cable	x 2
I/O port bracket	x 1
Startup manual	x 1
Utility CD	x 1

Accessories

Part Number	Description
1750000334	LGA775 CPU cooler (115 W)
1960022033T000	LGA775 CPU cooler for 2U chassis
1700003195	USB cable with two ports, 17.5 cm
1700002204	USB cable with two ports, 27 cm
1700002314	USB cable with four ports, 30.5 cm

AIMB-582

Intel® Xeon® E3/ Core™ i7/i5/i3 LGA1155
MicroATX with CRT/DVI/eDP/LVDS/DP,
6 COM, Dual LAN, DDR3 and SATAIII

NEW



Features

- Supports Intel® Xeon®/ Core™ i7/i5/i3 processor with Q77/C216 chipset
- Four DIMM sockets support up to 32 GB DDR3 1333/1600 MHz SDRAM
- Supports CRT, DVI, LVDS, DP, eDP (optional) and dual GbE LAN
- Supports Intel AMT 8.0 and Intel vPro competent
- Supports PCIe Gen3, USB 3.0, Software RAID 0,1,5,10, TPM 1.2 (Optional)
- Supports SUSIAccess and Embedded Software APIs

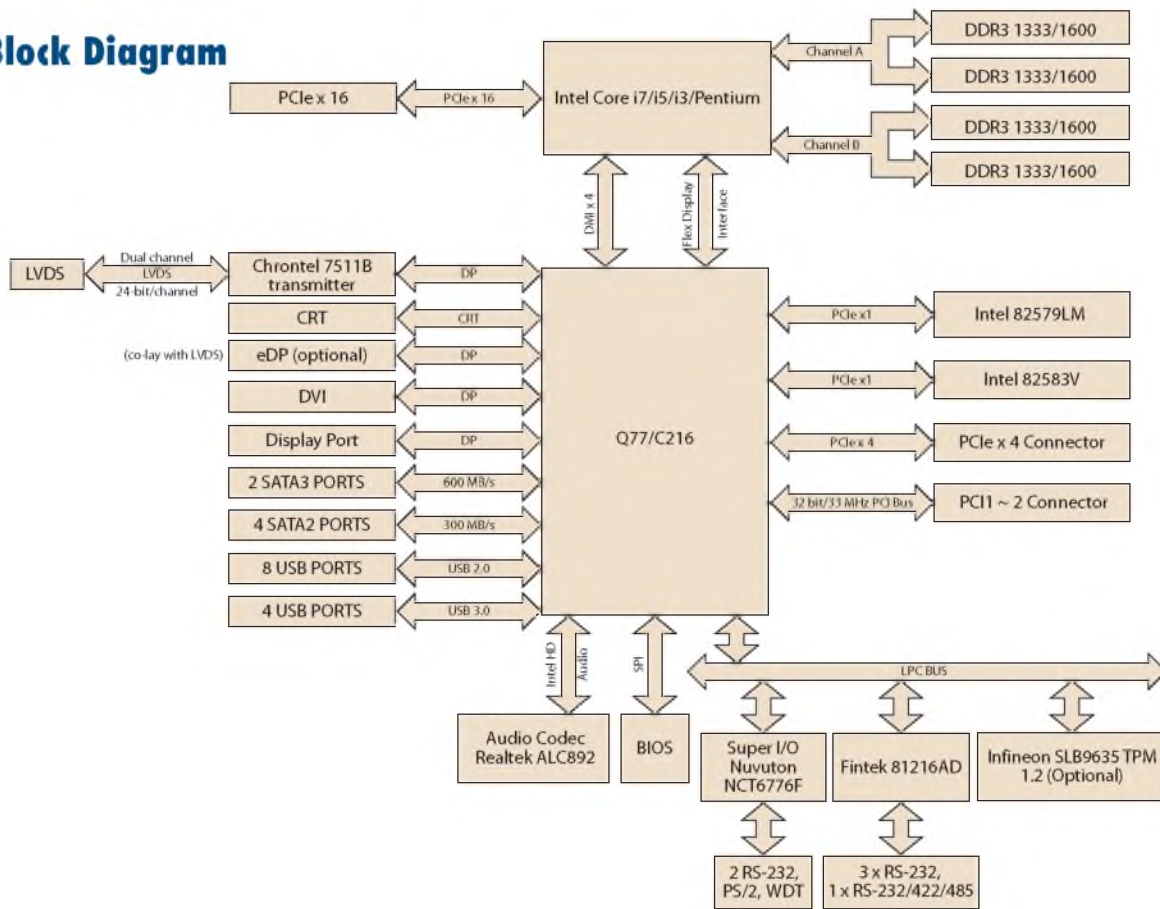
Software APIs:

Utilities:

Specifications

	CPU	Intel Xeon E3-1275v2	Intel Xeon E3-1275	Intel Xeon E3-1225v2	Intel Xeon E3-1225	Intel Core i3-2120	Intel Pentium G850	Intel Core i7-3770	Intel Core i7-2600	Intel Core i5-3550S	Intel Core i3-3220	Intel Core i5-2400	Intel Celeron G540		
Processor System	Core Number	4	4	4	4	2	2	4	4	4	2	4	2		
	Max. Speed	3.5 GHz	3.4 GHz	3.2 GHz	3.1 GHz	3.3 GHz	2.9 GHz	3.4 GHz	3.4 GHz	3.0 GHz	3.3 GHz	3.1 GHz	2.5 GHz		
	Integrated Graphic	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
	L3 Cache	8 MB	8 MB	8 MB	6 MB	3 MB	3 MB	8 MB	8 MB	6 MB	3 MB	6 MB	2 MB		
	Supports Model	WG2	WG2	WG2	WG2	WG2/QG2	WG2/QG2	QG2	QG2	QG2	QG2	QG2	QG2		
	Chipset	Q77/C216													
	BIOS	AMI EFI 64 Mbit SPI													
Expansion Slot	PCI	32-bit/33 MHz, 2 slots													
	PCIe x4 (Gen2)	2.0 GB/s per direction, 1 slot													
	PCIe x16 (Gen3)	16 GB/s per direction, 1 slot													
Memory	Technology	Dual Channel DDR3 1333/1600 MHz SDRAM													
	Max. Capacity	32 GB													
	Socket	4 x 240-pin DIMM													
Graphics	Controller	Intel HD Graphics													
	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed													
	LVDS	Single channel 24-bit/dual channel 48-bit LVDS													
	CRT	Yes, supports max resolution 2048 x 1536 at 60 Hz													
	DVI	Yes, supports max. resolution 1920 x 1200 at 60 Hz													
	eDP	Yes, with internal pin header, supports max. resolution 1920 x 1200 at 60 Hz													
	Display Port	Yes, supports max resolution 2560 x 1600 at 60 Hz													
Triple Display	CRT+eDP (or LVDS)+DP, CRT+eDP (or LVDS)+ DVI														
Dual Display	CRT+eDP (or LVDS), CRT+DVI, eDP (or LVDS)+ DVI														
Ethernet	Interface	10/100/1000 Mbps													
	Controller	GbE LAN1: Intel 82579LM, GbE LAN2: Intel 82583V													
SATA	Connector	RJ-45 x 2													
	Max Data Transfer Rate	600 MB/s (SATA 3.0)/ 300 MB/s (SATA 2.0)													
Rear I/O	Channel	2/4													
	CRT	1													
	DVI	1													
	Display Port	1													
	Ethernet	2													
	USB	4 (4 USB 3.0)													
	Audio	2 (Mic-in, Line-out)													
	Serial	1 (RS-232)													
	PS/2	2 (1 x keyboard and 1 x mouse)													
	USB	8 (USB 2.0 compliant)													
Internal Connector	Serial	5 (4 x RS-232, 1 x RS-232/422/485 to support auto flow control)													
	IDE	-													
	SATA	2 x 600 MB/s (SATA 3.0)/4 x 300 MB/s (SATA 2.0)													
	LVDS & Inverter	1 (default)													
	Extended Display Port (eDP)	1 (optional by removing LVDS)													
	Parallel	1													
	JTAG	1													
	IrDA	-													
	GPIO	8-bit GPIO													
	Watchdog Timer	Output	System reset												
Interval		Programmable 1 - 255 sec/min													
Power Requirements	Power On	Intel Core i7-3770 3.4 GHz, 8 GB DDR3 1600 MHz x 4pcs													
		+5 V	3.3 V	12 V	5 Vsb	-12 V									
Environment	Operating	0 - 60° C (32 - 140° F), depends on CPU speed and cooler solution													
	Temperature														
Physical Characteristics	Dimensions	244 mm x 244 mm (9.6" x 9.6")													

Block Diagram



Ordering Information

Part Number	Chipset	Memory	USB 3.0	CRT	DP	DVI	LVDS/eDP	USB	COM	TPM	GbE LAN
AIMB-582QG2-00A1E	Q77	Non-ECC	4	Yes	1	1	1(1)	12	6	(1)	2
AIMB-582WG2-00A1E	C216	ECC/Non-ECC	4	Yes	1	1	1(1)	12	6	(1)	2

*(1) BOM options available 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 for 1 PCIe x 16 abd 2 PCI expansion
AIMB-RP3P8-12A1E	2U riser card with 2 PCIe x 8 & 1 PCI slots expansion (For WG2 Sku)

Note: AIMB-RP3P8-12A1E is not compatible with ACP-2010MB/2320MB chassis unless change special bracket to 1950014302N001.

Packing List

Part Number	Description	Quantity
1700003194	SATA HDD cable	2
1703150102	SATA power cable	2
1960056089T000	I/O port braket	1
2002058100	Startup manual	1
2062058100	Driver CD	1

I/O View



AIMB-582QG2-00A1E
AIMB-582WG2-00A1E

Optional Accessories

Part Number	Description
1700002204	Dual port USB cable (27 cm) with bracket
1960047669N001	LGA1156 CPU cooler for 4U and wallmount chassis
1960047831N001	LGA1156 CPU cooler for 2U and wallmount chassis
1960049408N001	LGA1156 CPU cooler for 1U and wallmount chassis
1700000446	Printer port cable kit
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
1950014302N001	Special bracket for riser card AIMB-RP3P8-12A1E

Note: Purchasing AIMB-582's proprietary CPU cooler from Advantech is a must, other brand's CPU cooler are NOT compatible with AIMB-582.

Embedded OS/API

OS/API	Part No.	Description
Win XPE		XPE WES 2009 V4.0 ENG with Acronis PSNL XPE WES09 AIMB-582 V4.0 ENG_CHT ATI PSNL
Software API		SUSI 3.0 SW API for AIMB-582 XP

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