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AIMB-580

Intel[®] Core[™] i7/i5/i3/Pentium[®]/Xeon LGA1156 mATX with CRT/DVI, 4 COM, Dual LAN





Specifications

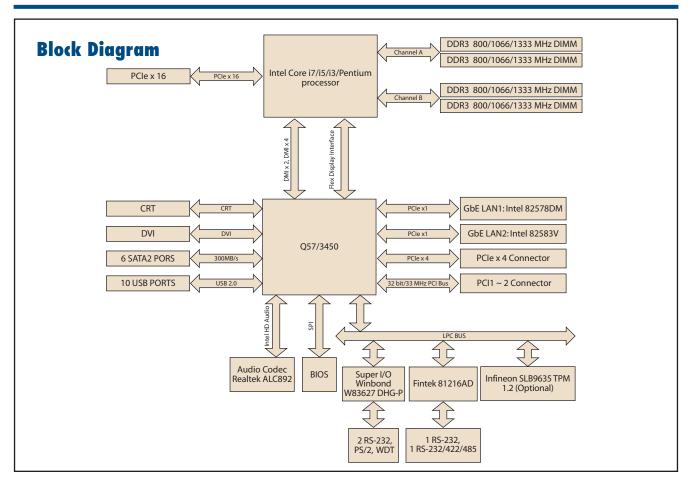
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Features

- Supports Intel[®] Core[™] i7/i5/i3/Pentium/Xeon processor with Q57/3450 chipset
- Four DIMM sockets support up to 16 GB DDR3 800/1066/1333 MHz SDRAM
- Supports dual display of CRT and DVI and dual GbE LAN
- Supports SATA RAID 0, 1, 5, 10, AMT 6.0, TPM 1.2 (optional)
- Supports SUSIAccess and Embedded Software APIs

Software APIs:	C itti			
	SMBus	H/W Monitor	Watchdog	GPIO
Utilities:	BIOS flash	Monitoring	Embedded Security ID	

	СРИ	Xeon 34xx	Intel Core i7	Intel Core i5	Intel Core i5	Intel Core i3	Intel Pentium G69xx
	Core Number	4	8xx 4	7xx 4	6xx 2	5xx 2	669XX 2
	Max. Speed	4 2.93 GHz	4 2.93 GHz	2.66 GHz	2 3.3 GHz	2 3.06 GHz	2 2.8 GHz
Processor Custom	Integrated Graphics	No	No	No	Yes	Yes	Yes
Processor System	L2 Cache	8 MB	8 MB	8 MB	4 MB	4 MB	3 MB
	Supports Model	WG2	0G2	QG2	4 MB WG2/QG2	WG2/QG2	WG2/QG2
		Q57/3450	QGZ	QGZ	WGZ/QGZ	WGZ/QGZ	WGZ/QGZ
	Chipset BIOS	AMI 64 Mbit SP	1				
	PCI	32-bit/33 MHz,					
venning Clat	PCI PCIe x4						
Expansion Slot		1.0 GB/s per dir					
	PCIe x16 (Gen2)	8 GB/s per direc	DR3 800/1066/1333 N				
	Technology			INZ SUKAW			
Memory	Max. Capacity	16 GB/4 GB per					
	Socket	4 x 240-pin DIN					
	Controller	Intel HD Graphic		CD and about surely	momony installed		
Vershier	VRAM		shared memory with 2		i memory installed		
Graphics	CRT		esolution 2048 x 1536				
	DVI		esolution 1920 x 1200	at 60 Hz			
	Dual Display	CRT+DVI					
	Interface	10/100/1000 M					
thernet	Controller		82578DM, GbE LAN2	: Intel 82583V			
	Connector	RJ-45 x 2					
SATA	Max Data Transfer Rate	300 MB/s (SATA	A 2.0)				
	Channel	6					
	CRT	1					
	DVI-D	1					
	Ethernet	2					
Rear I/O	USB	4 (USB 2.0 com					
	Audio	2 (Mic-in, Line-	out)				
	Serial	2 (RS-232)					
	PS/2	2 (1 x keyboard					
	USB	6 (USB 2.0 com					
	Serial	2 (1 x RS-232, 1	l x RS-232/422/485 to	support auto flow cor	ntrol)		
	IDE	-					
nternal Connector	SATA	6					
niemai connecioi	FDD	1					
	Parallel	1					
	IrDA	-					
	GPIO	-					
Vatchdog Timer	Output	System reset					
valunuog miner	Interval	Programmable 1					
			0 2.8 GHz, 2 GB DDR3	1333 MHz SDRAM x	4 pcs		
Power Requirements	Power On	5 V	3.3 V		12 V	5 Vsb	-12 V
		4.21 A	1.22 /	1	8.01 A	0.78 A	0.05 A
		Operating				Non-Operating	
Environment	Temperature	$0 \sim 60^\circ$ C (32 $\sim 140^\circ$ F), depends on CPU speed and cooler solution $-40 \sim 85^\circ$ C (-40 $\sim 185^\circ$ F)			~ 185° F)		
Physical Characteristics	Dimensions	244 mm x 244 r	nm (9.6" x 9.6")				



Ordering Information

Part Number	Chipset	Memory	CRT	DVI	USB	COM	GbE LAN
AIMB-580QG2-00A1E	Q57	Non-ECC	Yes	Yes	10	4	2
AIMB-580WG2-00A1E	3450	ECC/Non-ECC	Yes	Yes	10	4	2

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)
AIMB-RF10F-01A1E	1U riser card with 1 PCI e x 16 expansion slot

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

I/O View



AIMB-580QG2-00A1E AIMB-580WG2-00A1E

Packing List

Part Number	Description	Quantity
1700340640	FDD cable	1
1700003194	SATA HDD cable	2
1703150102	SATA power cable	2
1960019193T100	I/O port bracket	1
2002058000	Startup manual	1
2062058000	Driver CD	1

Optional Accessories

Part Number	Description
1701092300	1-to-4 serial ports cable kit, 28.5 cm
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
1700008809	Printer port cable kit
1960048353T000	1U I/O port bracket
1950014302N001	Special bracket for riser card AIMB-RP3P8-12A1E

Note: Purchasing AIMB-580's proprietary CPU cooler from Advantech is a must. Other brands' CPU cooler are NOT compatible with AIMB-580.

The complete thermal solution is composed of CPU cooler and system fans to support the CPU TDP as above.

Embedded OS/API

OS/API	Part No.	Description
Win XPF	2070009652	XPE WES2009 Q57_AIMB-280/580/780 V4.0 ENG
WIII XPE	2070009653	XPE WES2009 Q57_AIMB-280/580/780 V4.0 MUI24
Software API	205E580000	SUSI 3.0 SW API for AIMB-580 XP

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