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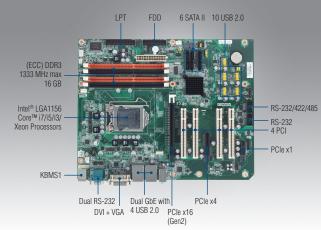
AIMB-780

LGA1156 Intel[®] Core[™] i7/i5/i3/Pentium[®]/Xeon[®] ATX with DVI/VGA, 4 COM, Dual LAN, DDR3

- Supports Intel[®] Core™ i7/i5/i3/Pentium[®]/Xeon[®] processor with Q57/3450

- Four DIMM sockets support up to 16 GB DDR3 800/1066/1333

Supports dual display VGA and DVI and dual GbE LAN
Supports SATA RAID 0, 1, 5, 10, AMT6.0, TPM1.2 (optional)



Specifications

©C € FCC

Supports embedded software APIs and utilities

Features

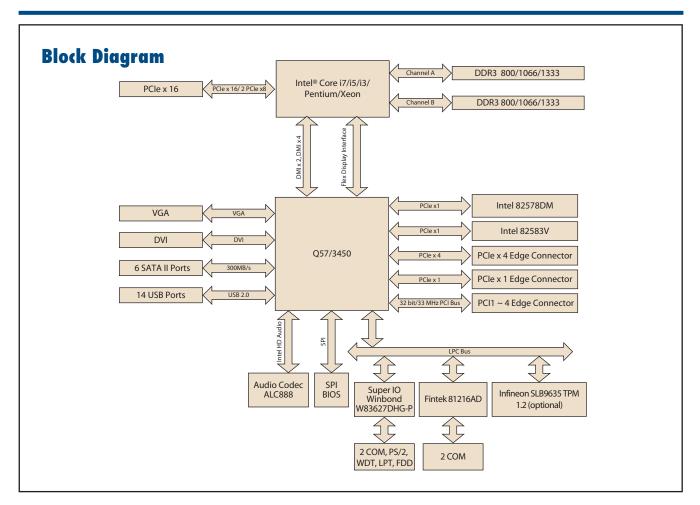
chipset

Software APIs:		H/W Monitor	Watchdog
Utilities:	Monitoring	Embedded Security ID	esos

Note: eSOS needs ODM BIOS available by request

	CPU	Xeon 34xx	Core i7 8xx	Core i5 7xx	Core i5 6xx	Core i3 5xx	Pentium G69xx	
	Core Number	4	4	4	2	2	2	
	Speed	2.93 GHz	2.93 GHz	2.66 GHz	3.3 GHz	3.06 GHz	2.8 GHz	
	Integrated Graphics	-	-	-	Yes	Yes	Yes	
Processor System	L3 Čache	8 MB	8 MB	8 MB	4 MB	4 MB	3 MB	
Processor System	Support Model	WG2	QG2	QG2	WG2/QG2	WG2/QG2	WG2/QG2	
	Socket	LGA1156						
	Chipset	Q57 for QG2 version; 3450 for WG2 version (WG2 only supports Xeon 34xx, Core i5 6xx, Core i3 5xx, and Pentium G69XX CPUs)						
	BIOS	AMI 64 Mbit SF						
	PCI	32-bit/33 MHz,						
Expansion Slot	PCIe x1	250 MB/s per d						
LAPATISTUTI STUL	PCIe x4	1.0 GB/s per dir	rection, 1 slot					
	PCIe x16 (Gen2)	8 GB/s per direc						
	Technology		DR3 800/1066/1333	(Only WG2 SKU suppo	orts ECC memory)			
Vlemory	Max. Capacity	16 GB						
	Socket	4 x 240-pin DIN						
Graphics	Controller			xx, Core i3 and Pentiu		ore are embedded w	ith integrated graphic	
Jiapinos	VRAM			2 GB and above syster	n memory installed			
	Interface	10/100/1000 M						
Ethernet	Controller	GbE LAN1: Intel	I 82578DM, GbE LAN	2: Intel 82583V				
	Connector	RJ-45 x 2						
SATA	Max Data Transfer Rate	300 MB/s						
DATA	Channel	6						
	VGA	1						
	DVI	1						
	Ethernet	2						
Rear I/O	USB	4 (USB 2.0 com	ipliant)					
	Audio	2 (Mic-in, Line-	-out)					
	Serial	2 (RS-232)						
	PS/2	2 (1 x keyboard						
	USB	10 (USB 2.0 coi						
	Serial	2 (1 x RS-232,	1 x RS-232/422/485	or auto-flow control su	upport)			
nternal Connectors	SATA	6						
niemai Conneciois	FDD	1						
	Parallel	1						
	IrDA	1						
Vatchdog Timer	Output	System reset						
watchuog miner	Interval	Programmable						
	Power On	Intel Core i5-66	0 processor; DDR3 2	GB x 4				
Power Requirement		5 V	3.3 V	12 V	5 Vsb	-12 V		
		4.23 A	0.96 A	3.93 A	1.18 A	0.01A		
		Operating			Non-Operating			
Environment	Temperature	0 ~ 60° Č (32 ~ solution	140° F), depends on	CPU speed and coole	r -40 ~ 85° C (-40) ~ 185° F)		
Physical Characteristics	Dimensions	304.8 x 244 mm	n (12" x 9.6")					

AIMB-780



Ordering Information

Part Number	Chipset	Memory	USB	СОМ	GbE LAN	ТРМ
AIMB-780QG2-00A1E	Q57	Non-ECC	14	4	2	Optional
AIMB-780WG2-00A1E	3450	ECC/Non-ECC	14	4	2	Optional

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 1PCIe x16 & 2 PCI slot expansion
AIMB-RP3P8-12A1E	2U riser card with 2PCIe x8 & 1 PCI slot expansion (only for WG2 Sku)

Note: Purchasing 1950014302N001 is a must when installing AIMB-RP3P8-12A1E with ACP-2010MB/2320MB chassis.

Bracket View



AIMB-780QG2-00A1E AIMB-780WG2-00A1E

Packing List

Part Number	Description	Quantity
1700003194	SATA HDD cable	x 2
1703150102	SATA power cable	x 2
1701092300	COM port cable kit	x 1
1960019193T000	I/O port bracket	x 1
2002078010	Startup manual	x 1
2062078000	Driver CD	x 1

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
1700020294-01	Printer port cable kit
1960048353T000	I/O port bracket for 1U chassis

Note 1: Purchasing AIMB-780's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with AIMB-780.

Note 2: 1960049408N001 is design to be used with Advantech 1U chassis, user needs to conduct thermal test before using this cooler with other brand chassis.