

AIMB-580

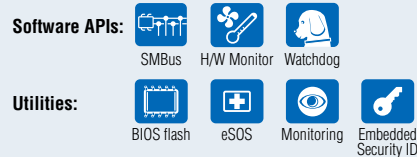
Intel® Core™ i7/i5/i3/Pentium® Processor
VGA/DVI, 4 COM, Dual LAN mATX with VGA/
DVI, 4 COM, Dual LAN



CE FCC

Features

- Supports Intel® Core™ i7/i5/i3/Pentium processor with Q57 chipset
- Four DIMM socket supports up to 16 GB DDR3 800/1066/1333
- Supports dual display of VGA and DVI and dual GbE LAN
- Supports SATA RAID 0, 1, 5, 10, AMT 6.0, TPM 1.2 (optional)
- Supports embedded software APIs and utilities



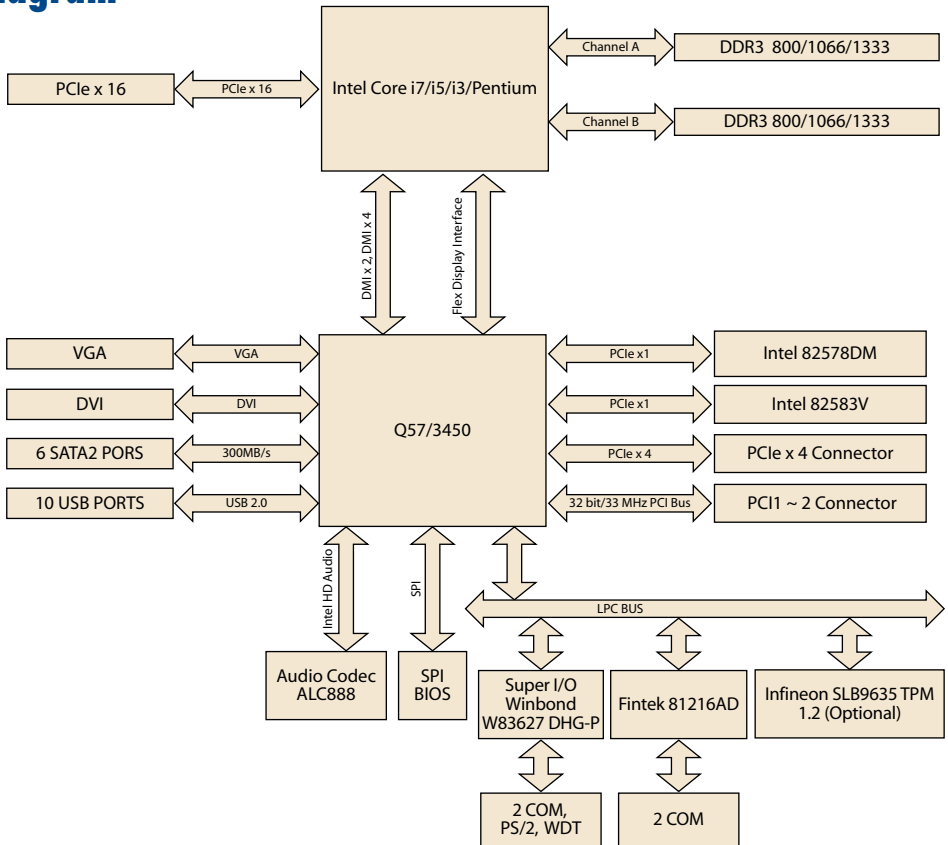
Note: eSOS need ODM BIOS by request

Specifications

Processor System	CPU	Intel® Core™ i7	Intel® Core™ i5 700	Intel® Core™ i5 600	Intel® Core™ i3	Intel® Pentium™
	Core number	4	4	2	2	2
	Max.speed	2.93 GHz	2.66 GHz	3.3 GHz	3.06 GHz	2.8 GHz
	Integrated Graphic	No	No	Yes	Yes	Yes
	L3 Cache	8 MB	8 MB	4 MB	4 MB	3 MB
	Chipset	Q57/3450				
	BIOS	AMI 64 Mbit SPI				
Expansion Slot	PCI	32-bit/33 MHz, 2 slots				
	PCIe x4	1.0 GB/s per direction, 1 slot				
	PCIe x16 (Gen2)	8 GB/s per direction, 1 slot				
Memory	Technology	Dual Channel DDR3 800/1066/1333				
	Max. Capacity	16 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				
Ethernet	Interface	10/100/1000 Mbps				
	Controller	GbE LAN1: Intel 82578DM, GbE LAN2: Intel 82583V				
	Connector	RJ-45 x 2				
SATA	Max Data Transfer Rate	300 MB/s				
	Channel	6				
Rear I/O	VGA	1				
	DVI	1				
	Ethernet	2				
	USB	4 (USB 2.0 compliant)				
	Audio	2 (Mic-in, Line-out)				
	Serial	2 (RS-232)				
	PS/2	2 (1 x keyboard and 1 x mouse)				
Internal Connector	USB	6 (USB 2.0 compliant)				
	Serial	2 (1 x RS-232, 1 x RS-232/422/485 to support auto flow control)				
	IDE	-				
	SATA	6				
	FDD	1				
	Parallel	1				
	IrDA	-				
DIO	-					
Watchdog Timer	Output	System reset				
	Interval	Programmable 1 ~ 255 sec/min				
Power Requirements	Power On	5V	3.3V	12V	5Vsb	-12V
		3.9A	0.67A	3.84A	0.23A	0.24A
		Operating				Non-Operating
Environment	Temperature	0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution			-20 ~ 70° C (-4 ~ 158° F)	
		Physical Characteristics				
Dimensions	244 mm x 244 mm (9.6" x 9.6")					



Board Diagram



Ordering Information

Part Number	Chipset	VGA	DVI	SW RAID	USB	COM	GbE LAN
AIMB-580QG2-00A1E	Q57	Yes	Yes	Yes	10	4	2
AIMB-580WG2-00A1E	3450	Yes	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-12A1E	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)

Bracket View



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
2066058000	Driver CD	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

Embedded OS/API

Embedded OS/API	Part No.	Description
Win XPE	2070009652	XPE WES2009 Q57_AIMB-280/580/780 V4.0 ENG
	2070009653	XPE WES2009 Q57_AIMB-280/580/780 V4.0 MUI24
Software API	205EB58000	SUSI 3.0 SW API for AIMB-580 XP

