

# AIMB-580

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

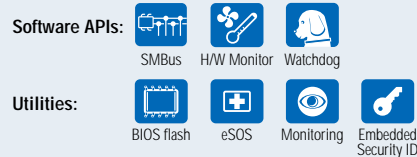
NEW



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

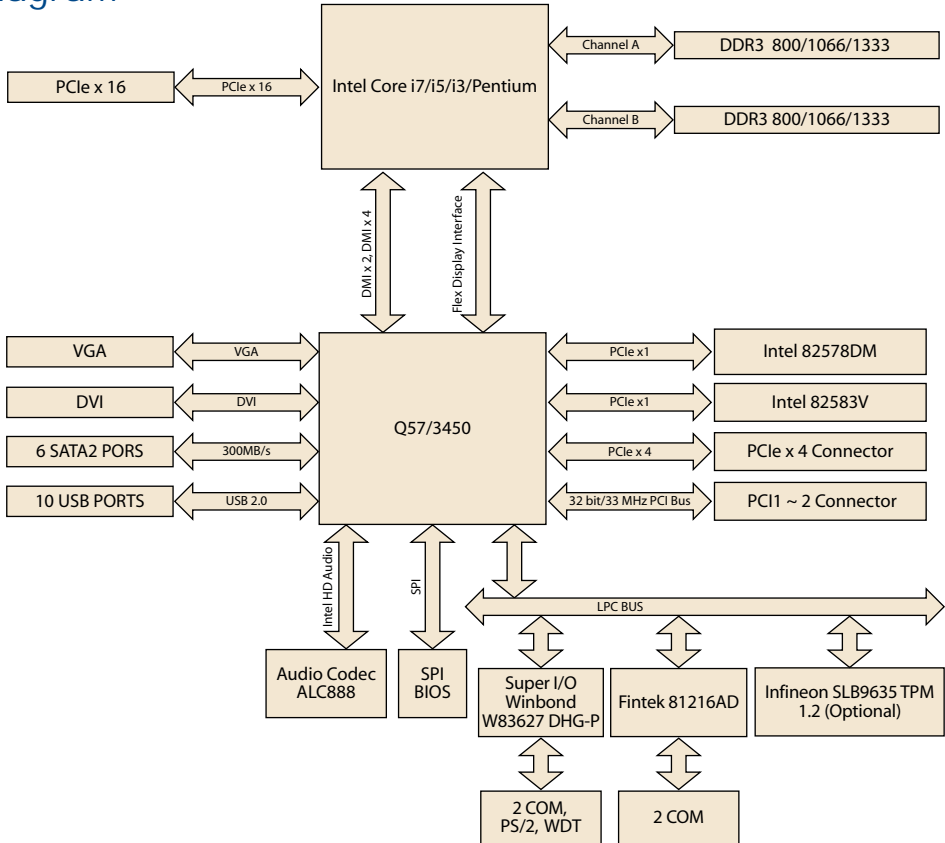


Note: eSOS need ODM BIOS by request

## 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
	L2 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	-				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1 ~ 255 sec/min				
Power Requirements	Power On	5V	3.3V	12V	5Vsb	-12V
		4.17A	0.77A	0.01A	0.84A	0.13A
Environment	Temperature	Operating			Non-Operating	
		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-RP3P8-12A1E	2U riser card with 1 PCIe x 16 & 2 PCI slots expansion (For WG 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
2002058010	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 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

