

AIMB-580

Intel® Core i7/i5/i3/Pentium 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 support 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
- Supports embedded software APIs and Utilities

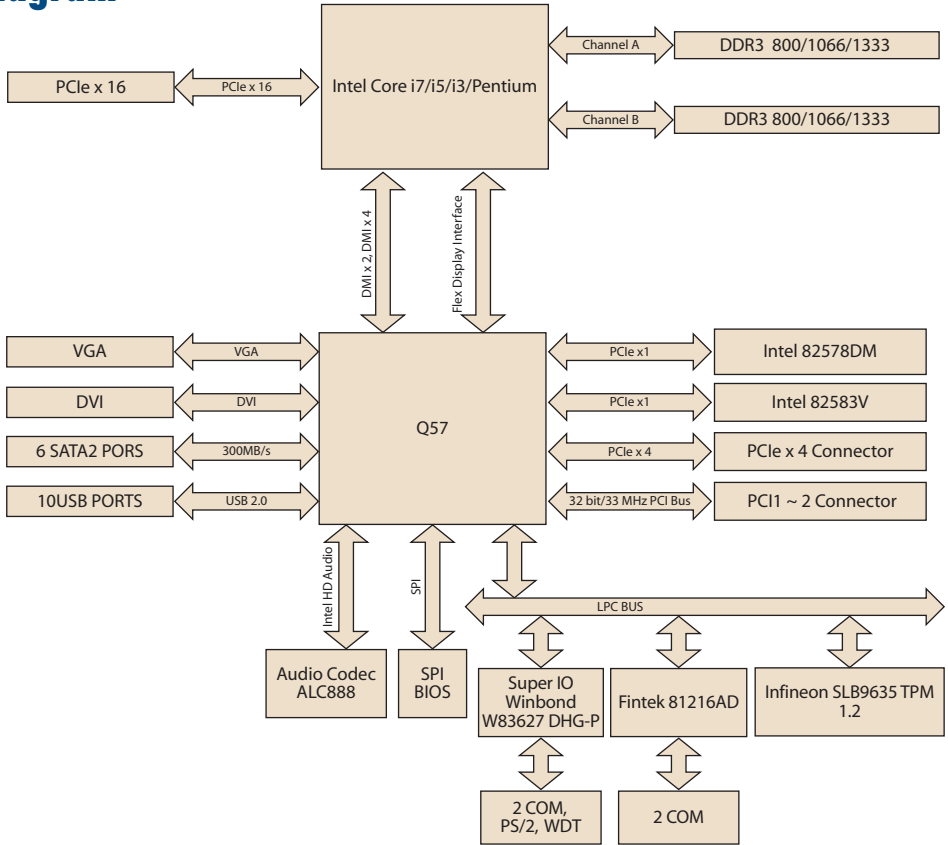


Note: eSOS need ODM BIOS by request

Specifications

Processor System	CPU	Corei7	Corei5 700	Core i5 600	Core i3	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	Only those Core i5 600, Core i3 and Pentium CPUs with Clarkdale core are embedded with integrated				
	L2 Cache	8 MB	8 MB	4 MB	4 MB	3 MB
	Chipset	Q57				
	BIOS	AMI 64 Mbit SPI				
Expansion Slot	PCI	32-bit/33 MHz, 2 slots				
	PCIe x 4	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 GFX				
	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	3 (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 of RS-232, 1 of RS-232/422/485 for support auto flow control)				
	IDE	-				
	SATA	6				
	FDD	1				
	Parallel	1				
	IrDA	-				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1 ~ 255 sec/min				
Power Requirement	Power On	5 V	3.3 V	12 V	5 Vsb	-12 V
		TBD	TBD	TBD	TBD	TBD
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	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-580G2-00A1E	Q57	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-21A1E	2U riser card with 1PCIe x 16 & 2PCI slot expansion

Bracket View



Packing List

Part Number	Description	Quantity
1700340640	FDD cable	x 1
1700003194	SATA HDD cable	x 2
1703150102	SATA Power cable	x 2
1960019193T100	I/O port bracket	x 1
2006058010	Startup manual	x 1
2006058000	Driver CD	x 1

Accessories

Part Number	Description
1700002204	Dual port USB cable (27 cm) with bracket
1960047373N001	LGA1156 CPU cooler for 2U and wallmount chassis