

# AIMB-280

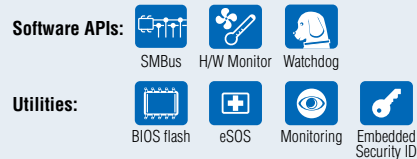
Intel® Core™ i7/i5/i3/Pentium® Mini-ITX  
with VGA/DVI, 2 COM, Dual LAN, PCIe x16



CE FCC

## Features

- Supports Intel® Core™ i7/i5/i3/Pentium® processor with Q57 chipset
- One DIMM socket supports up to 4 GB DDR3 800/1066/1333
- Supports dual display, VGA and DVI; and dual GbE LAN
- Supports 2 COM, 8 USB, and 4 SATA ports
- Supports embedded software APIs and Utilities



Note: eSOS requires ODM BIOS, available by request

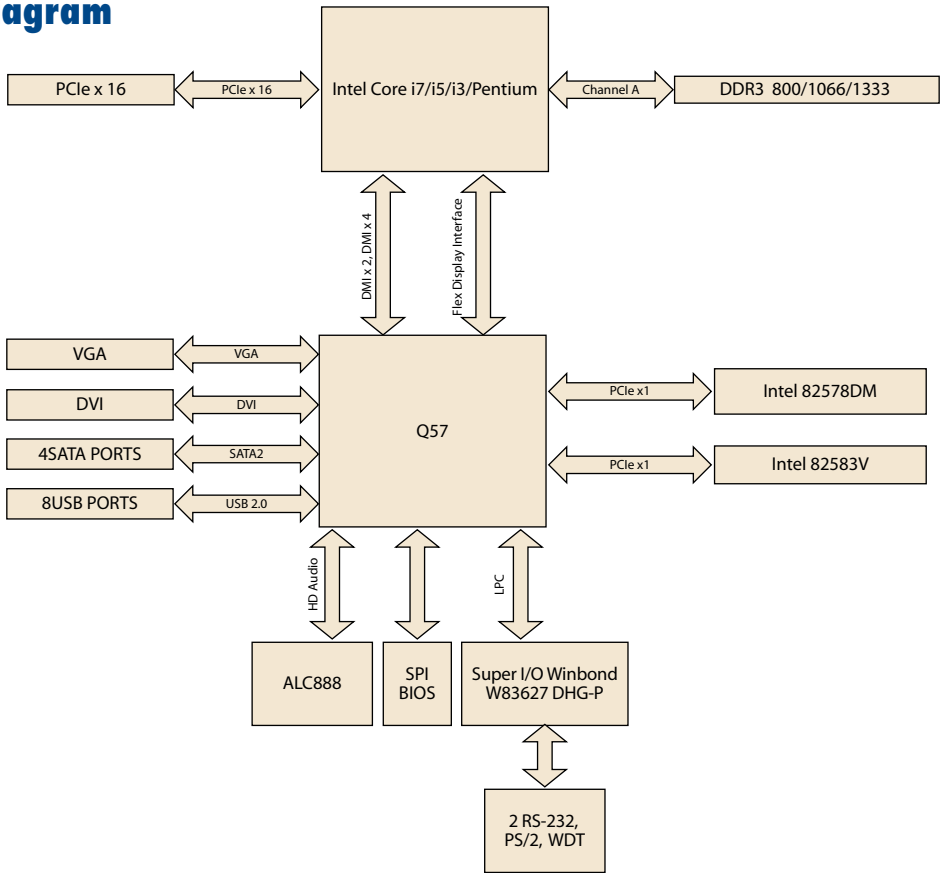
## Specifications

Processor System	CPU	Core i7	Core i5 700	Core i5 600	Core i3	Pentium
	Max. Speed	4	4	2	2	2
	Max. speed	2.93 GHz	2.66 GHz	3.3 GHz	3.06 GHz	2.8 GHz
	Integrated Graphics	No	No	Yes	Yes	Yes
	L3 Cache	8 MB	8 MB	4 MB	4 MB	3 MB
	Chipset	Q57				
BIOS	AMI 64 Mbit SPI					
Expansion Slot	PCI	-				
	Mini-PCI	-				
	PCIe x16 (Gen2)	8 GB/s per direction, 1 slot				
Memory	Technology	DDR3 800/1066/1333				
	Max. Capacity	4 GB				
	Socket	1 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, LAN2: Intel 82583V				
	Connector	RJ-45 x 2				
SATA	Max Data Transfer Rate	300 MB/s				
	Channel	4				
Rear I/O	VGA	1				
	DVI	1				
	Ethernet	2				
	USB	4 (USB 2.0 compliant)				
	Audio	3 (Mic-in, Line-out, Line-in)				
	Serial	2 (RS-232)				
	PS/2	2 (1 x keyboard and 1 x mouse)				
	USB	4 (USB 2.0 compliant)				
Internal Connector	Serial	-				
	IDE	-				
	SATA	4				
	CompactFlash	-				
	Parallel	-				
	IrDA	-				
	DIO	-				
	Watchdog Timer	Output	System reset			
Interval		Programmable 1 ~ 255 sec/min				
Power Requirements	Power On	5 V	3.3 V	12 V	5 Vsb	-12 V
		1.85 A	0.73 A	3.14 A	0.31 A	0.11 A
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	170 mm x 170 mm (6.69" x 6.69")				



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**Board Diagram**



**Ordering Information**

Part Number	Chipset	VGA	DVI	SW RAID	USB	COM	GbE LAN
AIMB-280QG2-00A1E	Q57	Yes	Yes	Yes	8	2	2

**Optional Accessories**

Part Number	Description
1700002204	Dual port USB cable (27 cm) with bracket
1960047670N001	LGA1156 CPU cooler for 2U and wallmount chassis

**Packing List**

Part Number	Description	Quantity
1700003194	SATA HDD cable	2
1703150102	SATA Power cable	2
1960019193T100	I/O port bracket	1
2002028010	Startup manual	1
2062028000	Driver CD	1

**Embedded OS**

OS	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

**Bracket View**

