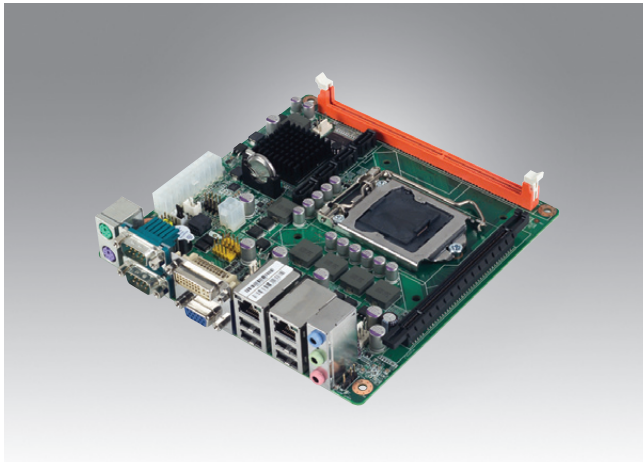


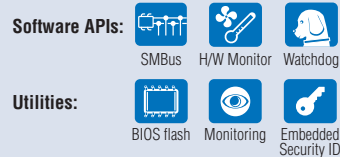
AIMB-280

Intel® Core™ i7/i5/i3/Pentium® LGA1156 Mini-ITX with CRT/DVI, 2 COM, Dual LAN, PCIe x16



Features

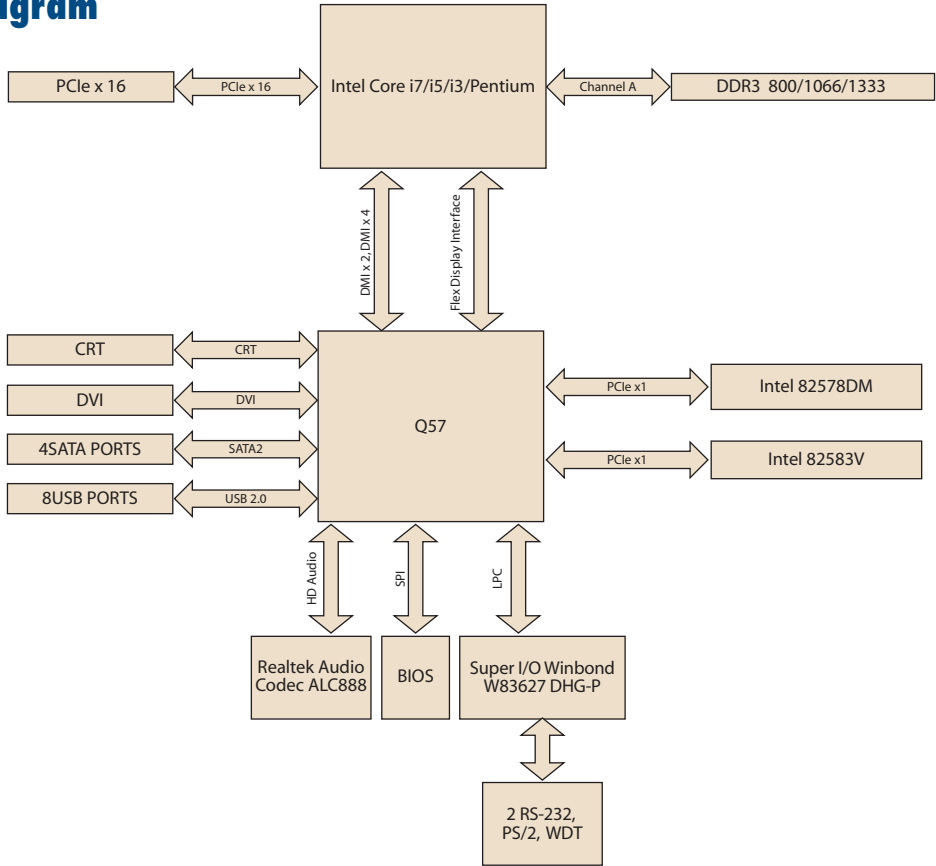
- Supports Intel® Core™ i7/i5/i3/Pentium® processor with Q57 chipset
- One DIMM socket supports up to 4 GB DDR3 800/1066/1333 MHz SDRAM
- Supports dual display, CRT and DVI, and dual GbE LAN
- Supports 2 COM, 8 USB, and 4 SATA ports
- Supports SUSIAccess and Embedded Software APIs



Specifications

	CPU	Core i7	Core i5 700	Core i5 600	Core i3	Pentium	
Processor System	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 MHz SDRAM					
	Max. Capacity	4 GB					
	Socket	1 x 240-pin DIMM (Non-ECC)					
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	CRT	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	-					
	GPIO	-					
Watchdog Timer	Output	System reset					
	Interval	Programmable 1 ~ 255 sec/min					
Power Requirements	Power On	Intel Core i7-860 2.8 GHz, 16 GB DDR3 1333 MHz SDRAM					
		5 V	3.3 V	12 V	5 Vsb	-12 V	
		1.41 A	0.93 A	8.62 A	0.08 A	0.11 A	
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	170 mm x 170 mm (6.69" x 6.69")					

Block Diagram



Ordering Information

Part Number	Chipset	CRT	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/API

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 MUJ24
Software API	205E280000	SUSI 3.0 SW API for AIMB-280 XP

I/O View



AIMB-280G2-00A1E