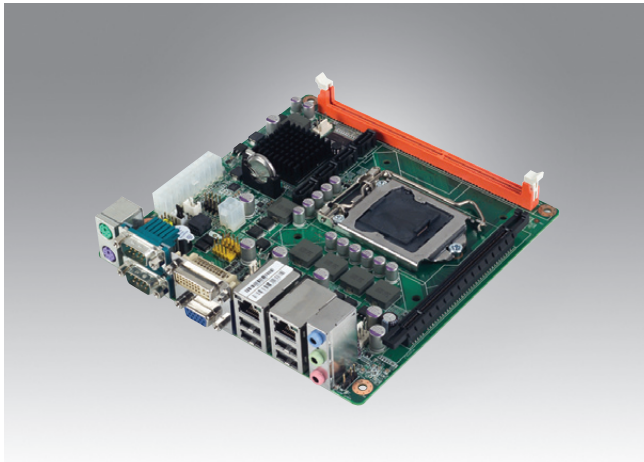





AIMB-280




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

Software APIs:  SMBus  H/W Monitor  Watchdog

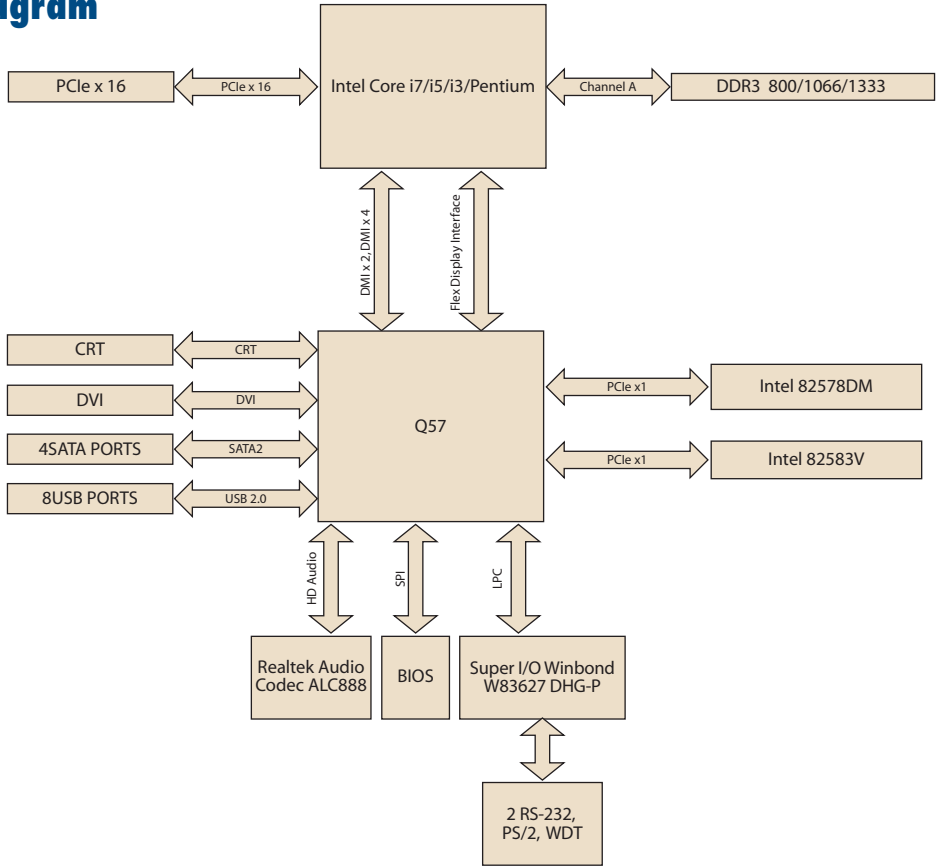
Utilities:  BIOS flash  Monitoring  Embedded Security ID



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				
Expansion Slot	BIOS	AMI 64 Mbit SPI				
	PCI	-				
	Mini-PCI	-				
Memory	PCIe x16 (Gen2)	8 GB/s per direction, 1 slot				
	Technology	DDR3 800/1066/1333 MHz SDRAM				
	Max. Capacity	4 GB				
Graphics	Socket	1 x 240-pin DIMM (Non-ECC)				
	Controller	Intel HD Graphics				
Ethernet	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed				
	Interface	10/100/1000 Mbps				
	Controller	GbE LAN1: Intel 82578DM, LAN2: Intel 82583V				
SATA	Connector	RJ-45 x 2				
	Max Data Transfer Rate	300 MB/s				
Rear I/O	Channel	4				
	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)				
Internal Connector	USB	4 (USB 2.0 compliant)				
	Serial	-				
	IDE	-				
	SATA	4				
	CompactFlash	-				
	Parallel	-				
	IrDA	-				
Watchdog Timer	GPIO	-				
	Output	System reset				
Power Requirements	Interval	Programmable 1 ~ 255 sec/min				
	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	
Environment	1.41 A	0.93 A	8.62 A	0.08 A	0.11 A	
	Temperature	Operating 0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution			Non-Operating -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