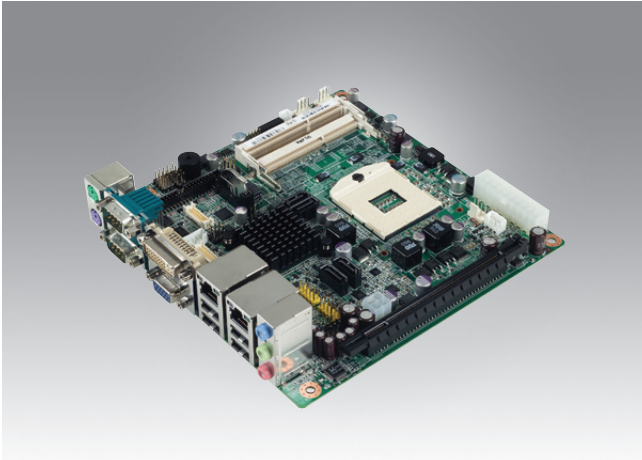


# AIMB-270

Intel® Core™ i7/i5/Celeron uFC-PGA989 Mini-ITX with CRT/2DVI/LVDS, 6 COM, Dual LAN, PCIe x16



## Features

- Supports Intel® Core™ i7 and i5 mobile processor (PGA) with Intel QM57 chipset
- Two 204-pin SO-DIMM up to 8 GB DDR3 800/1066/1333 MHz SDRAM
- Supports dual display of 2 DVI, LVDS, and CRT
- Supports PCIe x16 (Gen 2) and mini PCIe
- Supports, AMT6.0 and software RAID 0, 1, 5, 10
- Supports SUSIAccess and Embedded Software APIs

**Software APIs:**     

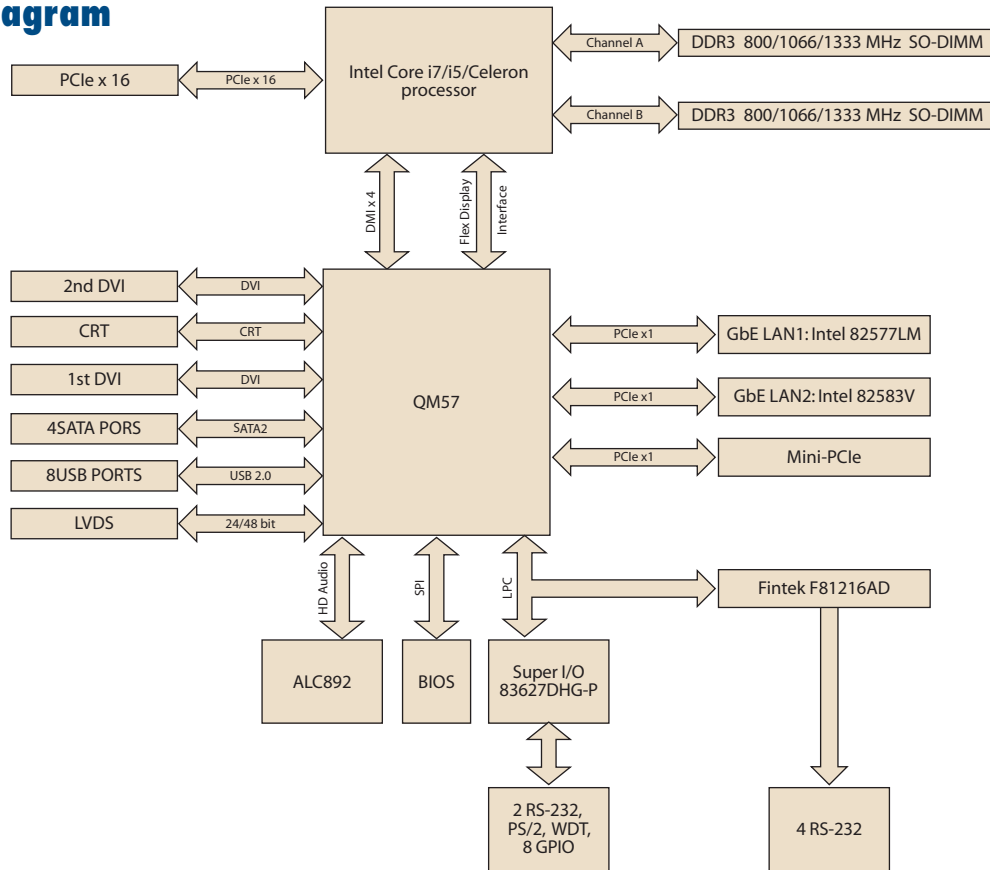
**Utilities:**  



## Specifications

Processor System	CPU	Intel Core i7-620M	Intel Core i5-520M	Intel Celeron
	Max. Speed	2.66 GHz	2.4 GHz	1.86 GHz
	DMI/FDI	DMI/FDI		
	L2 Cache	4 MB	3 MB	2 MB
	Chipset	QM57		
Expansion Slot	BIOS	AMI EFI 64 Mbit SPI		
	PCI	-		
Memory	Mini-PCIe	1		
	PCIe x16 (Gen2)	8 GB/s per direction, 1 slot		
	Technology	Dual Channel DDR3 800/1066/1333 MHz SDRAM		
Graphics	Max. Capacity	8 GB/4 GB per SO-DIMM		
	Socket	2 x 204-pin DDR3 SO-DIMM (Non-ECC)		
	Controller	Integrated Gfx Gen5.75, supports DirectX 10 and OpenGL 2.1		
Ethernet	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed		
	CRT	Supports max. resolution 2048 x 1536		
	LVDS	Supports dual channel 48 bit up to 1920 x 1200		
	1st DVI	Supports max. resolution 1920 x 1200		
	2nd DVI	Internal pin header, supports max. resolution 1920 x 1200		
SATA	Dual Display	CRT+LVDS, CRT+DVI, LVDS+DVI		
	Interface	10/100/1000 Mbps		
	Controller	GbE LAN1: Intel 82577LM, LAN2: Intel 82583V		
Rear I/O	Connector	RJ-45 x 2		
	Max Data Transfer Rate	300 MB/s (SATA 2.0)		
	Channel	4		
	CRT	1		
	DVI	1		
	Ethernet	2		
	USB	4 (USB 2.0)		
Internal Connector	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)		
	LVDS/Inverter	1		
	2nd DVI	1		
	Serial	4 (RS-232)		
	IDE	-		
	SATA	4 (SATA 2.0)		
	Mini-PCIe	1		
Watchdog Timer	Parallel	-		
	IrDA	-		
Power Requirements	GPIO	8-bit		
	Output	System reset		
	Interval	Programmable 1 ~ 255 sec/min		
Environment	Power On	Intel Core i7-620M 2.66 GHz, 4 GB DDR3 1333 MHz SDRAM		
	5 V	3.3 V	12 V	5 Vsb -12 V
	3.42 A	1.1 A	1.19 A	0.5 A 0.07A
Physical Characteristics	Operating	Non-Operating		
	Temperature	0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution		
		-40 ~ 85° C (-40 ~ 185° F)		
	Dimensions	170 mm x 170 mm (6.69" x 6.69")		

### Block Diagram



### Ordering Information

Part Number	CRT	2 DVI	GbE LAN	COM
AIMB-270G2-00A1E	Yes	Yes	2	6

### Packing List

Part Number	Description	Quantity
1700003194	SATA HDD cable	2
1703150102	SATA power cable	2
1960051292N001	CPU cooler	1
1700008876	1-to-4 serial ports cable kit, 35 cm	1
1960019193T100	I/O port bracket	1
20060270010	Startup manual	1
20660270000	Driver CD	1

### I/O View



AIMB-270G2-00A1E

### Optional Accessories

Part Number	Description
1700003195	USB cable with two ports, 17.5 cm
1700002204	USB cable with two ports, 27 cm
1700008461	USB cable with four ports, 30.5 cm
1700008822	DVI cable

### Optional Chassis

Part Number	Description
AIMB-B2000-15ZE	Mini-ITX chassis with 150W ATX power supply

### Embedded OS/API

OS/API	Part No.	Description
Win XPE	2070009655	XPE WES2009 QM57 AIMB-270 V4.0 ENG
	2070009656	XPE WES2009 QM57 AIMB-270 V4.0 MUI24
Software API	205E270001	SUSI 3.0 SW API for AIMB-270 XP

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