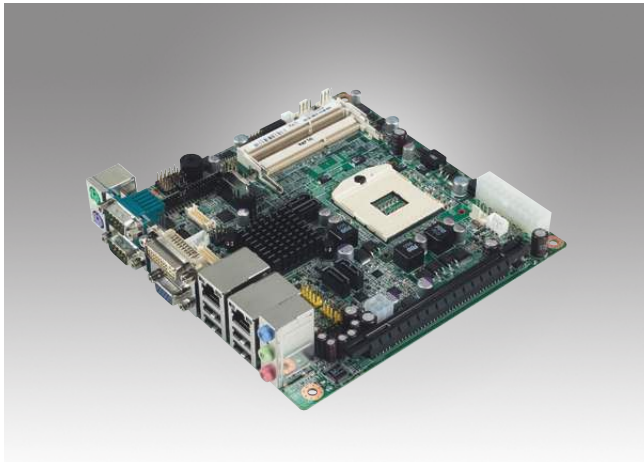


# AIMB-270

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:**     

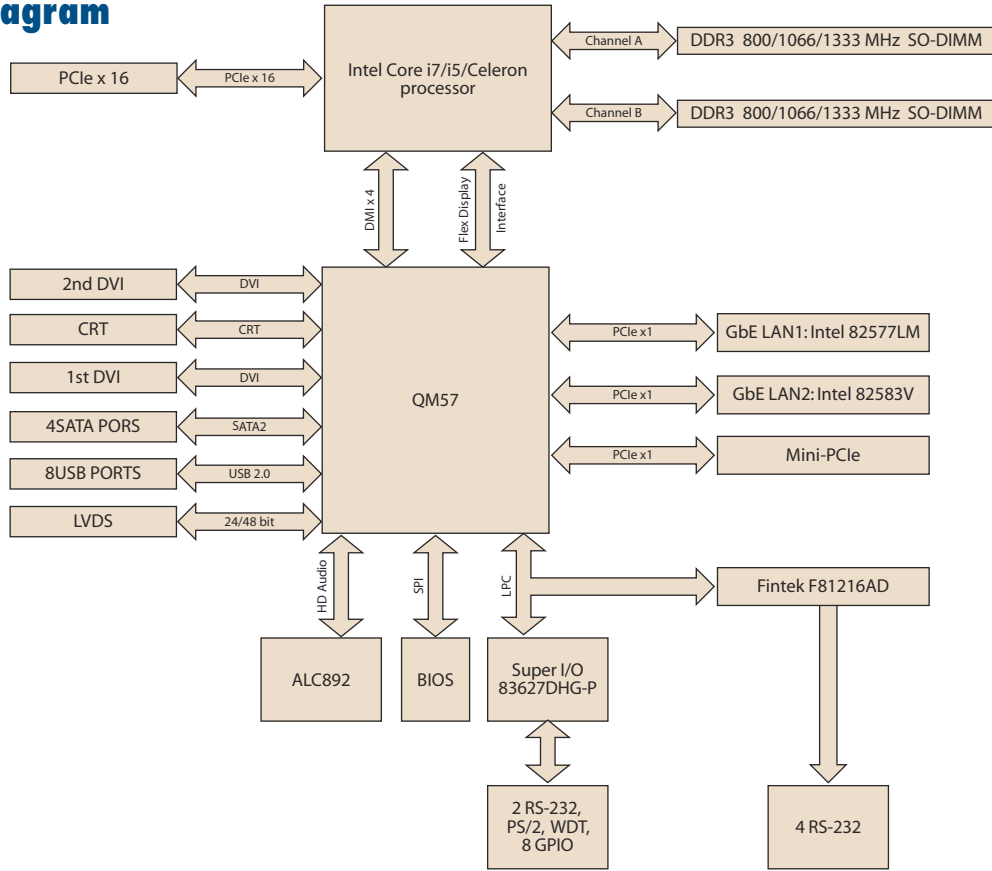
**Utilities:**  



## 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				
	Dual Display	CRT+LVDS, CRT+DVI, LVDS+DVI				
SATA	Interface	10/100/1000 Mbps				
	Controller	GbE LAN1: Intel 82577LM, LAN2: Intel 82583V				
	Connector	RJ-45 x 2				
Rear I/O	Max Data Transfer Rate	300 MB/s (SATA 2.0)				
	Channel	4				
	CRT	1				
	DVI	1				
	Ethernet	2				
	USB	4 (USB 2.0)				
	Audio	3 (Mic-in, Line-out, Line-in)				
	Serial	2 (RS-232)				
Internal Connector	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				
	Parallel	-				
	IrDA	-				
Watchdog Timer	GPIO	8-bit				
	Output	System reset				
Power Requirements	Interval	Programmable 1 ~ 255 sec/min				
	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
Environment		3.42 A	1.1 A	1.19 A	0.5 A	0.07A
	Operating	Non-Operating				
Physical Characteristics	Temperature	0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution				
	Dimensions	-40 ~ 85° C (-40 ~ 185° F)				
		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