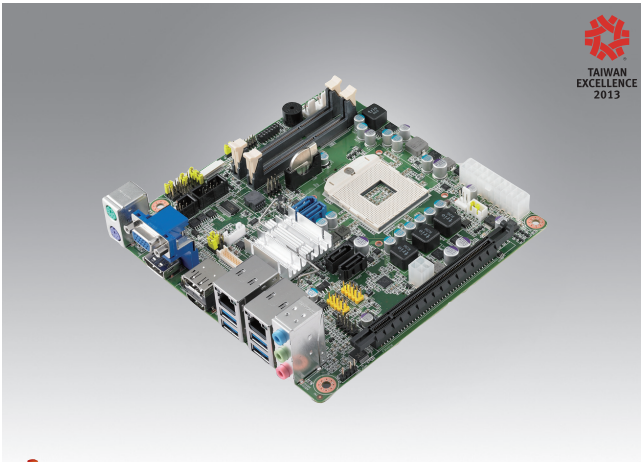


# AIMB-273

Intel® Core™ i7/i5/i3/Celeron  
uFC-PGA988 Mini-ITX with 2 DP/HDMI/  
LVDS/CRT, 2 COM, Dual LAN, PCIe x16



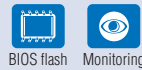
## Features

- Supports Intel® Core™ i7/i5/i3 mobile processor (PGA) with Intel QM77 chipset
- Two 204-pin SO-DIMM up to 16 GB DDR3 1333/1600 MHz SDRAM
- Supports triple display of 2 DP, HDMI, LVDS, CRT
- Supports PCIe x16 (Gen 3) and mini PCIe
- Supports Intel vPro, AMT 8.0, PECI 3.0, Software RAID 0,1,5,10, TPM 1.2 (optional)
- Supports iManager, WISE-PaaS/RMM and Embedded Software APIs

### Software APIs:



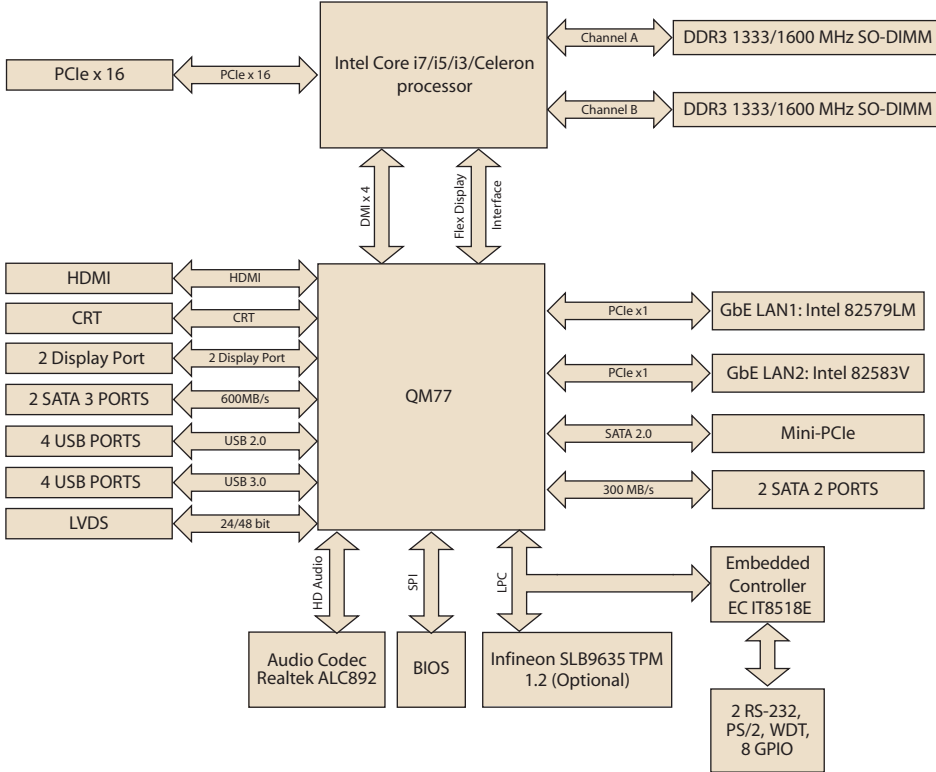
### Utilities:



## Specifications

	CPU	Intel Core i7-3610QE	Intel Core i7-2710QE	Core i5-3610ME	Core i5-2510E	Core i3-3120ME	Core i3-2330E	Celeron B810	
Processor System	Core Number	4	4	2	2	2	2	2	
	Max Speed	2.3 GHz	2.1 GHz	2.7GHz	2.5 GHz	2.4 GHz	2.2 GHz	1.6 GHz	
	L3 Cache	6 MB	6 MB	3MB	3 MB	3MB	3 MB	2 MB	
	Chipset	QM77							
	BIOS	AMI EFI 64 Mbit SPI							
Expansion Slot	PCI	-							
	Mini-PCIe	1							
	PCIe x16 (Gen3)	16 GB/s per direction, 1 slot							
Memory	Technology	Dual Channel DDR3 1333/1600 MHz SDRAM							
	Max. Capacity	16 GB/8 GB per SO-DIMM							
	Socket	2 x 204 PIN DDR3 SO-DIMM							
Graphics	Controller	Integrated Gfx Gen 7, supports DirectX11, OpenGL 3.1 and OpenCL 1.1							
	VRAM	Shared system memory, 2 GB and above, total system memory shared 1 GB maximum video memory							
	CRT	Yes, supports max. resolution 2048 x 1536							
	LVDS	Supports dual channel 48 bit up to 1920 x 1080							
	HDMI	Supports HDMI 1.4, 1650 Mbps/channel with 165 MHz							
Triple Display	DP+LVDS+HDMI, DP+DP+HDMI, DP+DP+LVDS, DP+CRT+HDMI (The Celeron B810 processor doesn't support triple display)								
Ethernet	Interface	10/100/1000 Mbps							
	Controller	GbE LAN1: Intel 82579LM, LAN2: Intel 82583V							
	Connector	RJ-45 x 2							
SATA	Max Data Transfer Rate	600 MB/s (SATA 3.0)/ 300 MB/s (SATA 2.0)							
	Channel	2/2							
Rear I/O	CRT	1							
	HDMI	1							
	Display Port	2							
	Ethernet	2							
	USB	4 (USB 3.0)							
	Audio	3 (Mic-in, Line-out, Line-in)							
	Serial	-							
	PS/2	2 (1 x keyboard and 1 x mouse)							
	Internal Connector	USB	4 (USB 2.0)						
Internal Connector	LVDS/Inverter	1							
	Serial	2 (RS-232, COM2 with 5 V/12 V)							
	IDE	-							
	SATA	2 (SATA 3.0), 2 (SATA 2.0)							
	Mini-PCIe	1							
	CFast	1							
	Parallel	-							
	IrDA	-							
	GPIO	8-bit							
Watchdog Timer	Output	System reset							
	Interval	Programmable 1 ~ 255 sec/min							
Power Requirements	Power On	Intel Core i7 -3610QE 2.30GHz processor/DDR3-1333MHz 4G x2/16G SQFlash							
		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	
Environment		Operating				Non-Operating			
	Temperature	0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution				-40 ~ 85° C (-40 ~ 185° F)			
Physical Characteristics	Dimensions	170 mm x 170 mm (6.69" x 6.69")							

### Block Diagram



### Ordering Information

Part Number	Chipset	DP	CRT	LVDS	HDMI	GbE LAN	COM
AIMB-273G2-00A1E	QM77	2	1	1	1	2	2

### Packing List

Part Number	Description	Quantity
1700003194	SATA HDD cable	2
1703150102	SATA power cable	2
1960051292N001	CPU cooler	1
1960019192T100	I/O port bracket	1
20060273010	Startup manual	1

### I/O View



AIMB-273G2-00A1E

### 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

### Optional Chassis

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

### Embedded OS/API

OS/API	Part number	Description
Win XPE	2070011021	XPE WES 2009
WES7	2070011359	Windows 7 Embedded English version
WES7E	2070011440	WES7E JPN/TC/SC/ENG

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