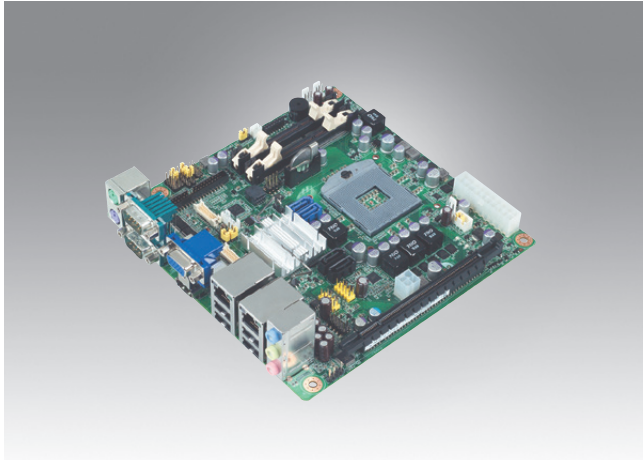


# AIMB-272

**Intel® Core™ i7/i5/i3/Celeron uFC-PGA988  
Mini-ITX with CRT/DVI/HDMI/LVDS, 6 COM,  
Dual LAN, PCIe x16**



## Features

- Supports Intel® Core™ i7/i5/i3 mobile processor (PGA) with Intel QM67/HM65 chipset
- Supports dual display of DVI, HDMI, LVDS, CRT
- Supports PCIe x16 (Gen 2) and mini PCIe
- Supports Intel vPro, AMT 7.0, PECL 3.0, Software RAID 0,1,5,10, TPM 1.2 (optional)
- Supports embedded software APIs and Utilities

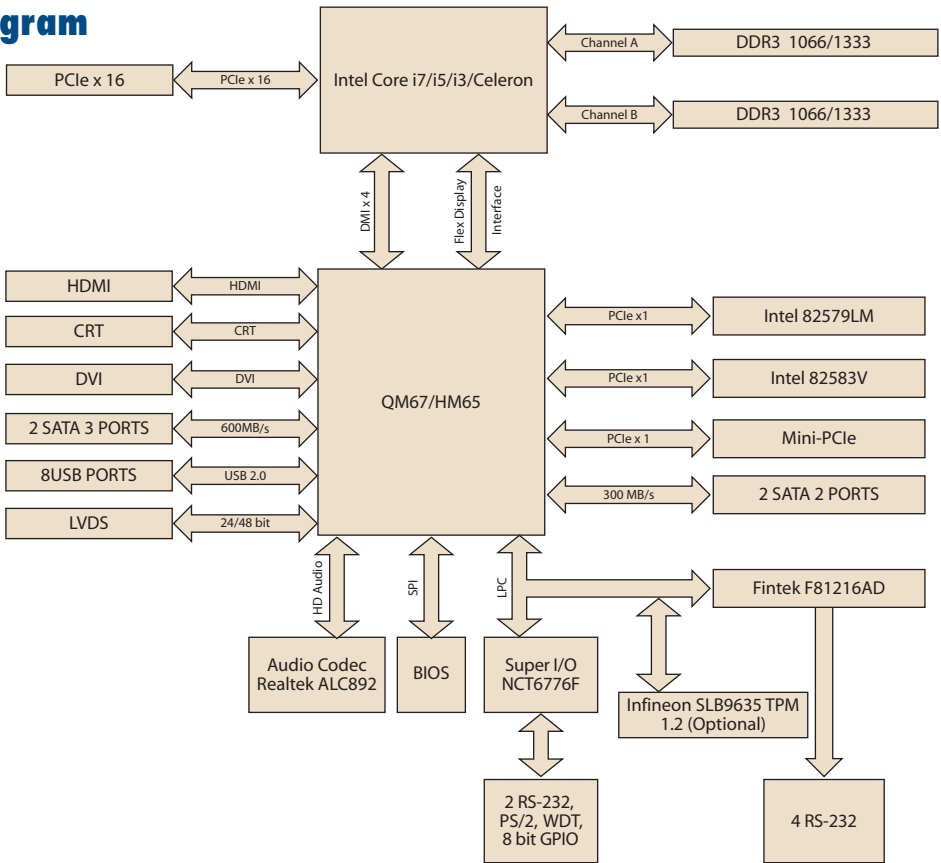
**Software APIs:**     

**Utilities:**   

## Specifications

Processor System	CPU	Intel Core i7-2710QE	Core i5-2510E	Core i3-2330E	Celeron B810	
	Core Number	4	2	2	2	
	Max Speed	2.1 GHz	2.5 GHz	2.2 GHz	1.6 GHz	
	L3 Cache	6 MB	3 MB	3 MB	2 MB	
	Chipset	QM67/HM65				
Expansion Slot	BIOS	AMI EFI 64 Mbit SPI				
	PCI	-				
	Mini-PCIe	1				
Memory	PCIe x16 (Gen2)	8 GB/s per direction, 1 slot				
	Technology	Dual Channel DDR3 1066/1333 MHz SDRAM				
	Max. Capacity	8 GB				
Graphics	Socket	2x 204 PIN DDR3 SODIMM (Non-ECC)				
	Controller	Integrated Gfx Gen5.75, supports DirectX 10 and OpenGL 2.1				
	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	Single channel 24-bit/dual channel 48-bit LVDS				
	HDMI	Supports HDMI 1.4, 1650 Mbps/channel with 165 MHz				
	DVI	Yes, supports max resolution 1920 x 1200				
Ethernet	Dual Display	CRT+LVDS, CRT+DVI, DVI+HDMI, LVDS+HDMI, CRT+HDMI, DVI+LVDS				
	Interface	10/100/1000 Mbps				
	Controller	GbE LAN1: Intel 82579LM, LAN2: Intel 82583V				
SATA	Connector	RJ-45 x 2				
	Max Data Transfer Rate	600 MB/s (SATA 3.0)/ 300 MB/s (SATA 2.0)				
Rear I/O	Channel	2/2				
	VGA	1				
	HDMI	1				
	Ethernet	2				
	USB	4 (USB 2.0 compliant)				
	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 compliant)				
	LVDS/inverter	1				
	DVI	1				
	Serial	4 (RS-232)				
	IDE	-				
	SATA	2 (SATA 3.0), 2 (SATA 2.0)				
	Mini-PCIe	1				
	Cfast	1				
	Parallel	-				
Watchdog Timer	IrDA	-				
	GPIO	8-bit				
	Output	System reset				
Power Requirements	Interval	Programmable 1 ~ 255 sec/min				
	Power On	Intel Core i7-2710QE 2.1 GHz, 8 GB DDR3 1333 MHz SDRAM				
		5 V	3.3 V	12 V	5 Vsb	-12 V
Environment		1.514 A	1.063 A	3.9 A	0.78 A	0.08 A
	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	LVDS	HDMI	GbE LAN	COM
AIMB-272G2-00A1E	QM67	Yes	Yes	Yes	Yes	2	6
AIMB-272VG-00A1E	HM65	Yes	Yes	No	Yes	1	6

**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

**Packing List**

Part Number	Description	Quantity
1700003194	SATA HDD cable	2
1703150102	SATA power cable	2
1960051292N001	CPU cooler	1
1701400181	1-to-4 serial ports cable kit, 18cm	1
1960019192T100	I/O port bracket	1
2002027210	Startup manual	1
20660272000	Driver CD	1

**Embedded OS/API**

OS/API	Part Number	Description
Win XPE	2070010799	XPE WES2009 AIMB-272 V4.0 ENG with Acronis
	2070011030	IMG WES09 AIMB-272 V4.0 ENG RUS ATIP
Software API	TBD	SUSI V3.0 SW API for AIMB-272 XP

**I/O View**



AIMB-272G2-00A1E  
AIMB-272VG-00A1E