

AIMB-764

**LGA 775 Core™ 2 Quad/ Core™ 2 Duo/
Pentium® 4 / Celeron® D Processor-based
ATX with DDR2/PCIe/Dual LAN**

NEW



Features

- Intel® Q965 533/800/1066 MHz FSB
- Supports Intel Core™ 2 Duo processor
- Dual channel DDR2 533/667/800 SDRAM up to 8GB
- PCIe16,5 SATA ports and Dual LAN
- Supports Embedded Software API and Utility

Software APIs:



H/W Monitor



Watchdog

Utility:



BIOS flash

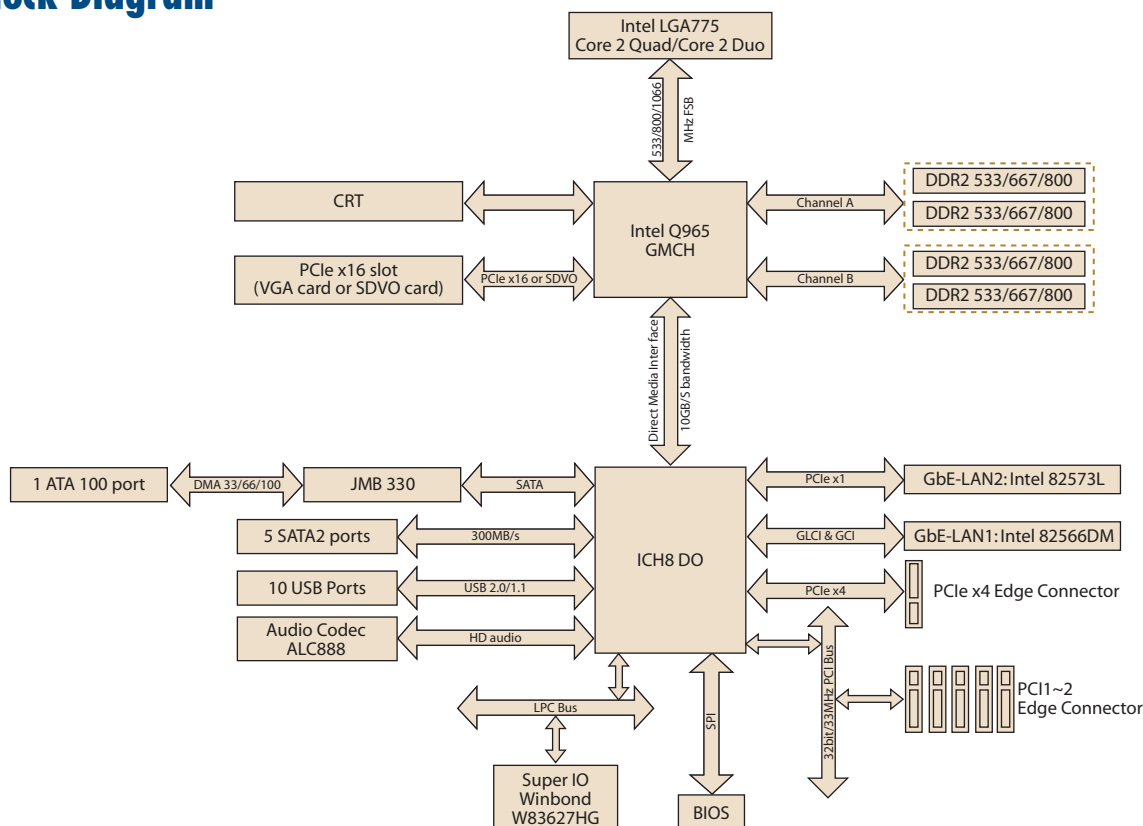


Monitoring

Specifications

	CPU (45nm/ 65nm/ 90nm)	Intel Core 2 Quad	Core 2 Duo	Pentium dual-core	Pentium 4	Celeron D
Processor System	Max. Speed	2.66 GHz	2.8 GHz	2.2 GHz	3.8 GHz	3.06 GHz
	L2 Cache	8 MB	3 MB	1 MB	2 MB/1 MB	512 KB/ 256 KB
	Chipset	Intel Q965+ICH8DO				
	BIOS	Award 16Mbit SPI				
	Front Side Bus	533/800/1066 MHz				
Expansion Slot	PCIe x16	4.0 GB/s per direction, 1 slot				
	PCIe x4	1 GB/s per direction, 1 slot				
	PCI	32-bit/33MHz, 5 slots				
Memory	Technology	Dual channel DDR2 533/667/800 MHz				
	Max. Capacity	8 GB				
	Socket	240-pin DIMM x 4				
Graphics	Embedded	Intel GMA 3000 sharing 256 MB system memory				
	Add-on	PCIe x16 slot				
Ethernet	Interface	10/100/1000 Base-T				
	Controller	GbE LAN1 Intel 82556DM; GbE LAN2: Intel 82573L				
	Connector	RJ-45 x 2				
SATA II	Max. Data Transfer Rate	300 MB/s				
	Channel	5				
EIDE	Mode	ATA 100/66/33				
	Channel	1 (Max. 1 device)				
I/O Interface	VGA	1				
	USB	Max. 10 (USB 2.0 compliant), 4 ports on board				
	Audio	2 (MIC-In, Line-Out)				
	Serial	2 (COM2 for RS232/422/485)				
	Parallel	1 (SPP/EPP/ECP)				
	FDD	1				
	PS/2	2				
Watchdog Timer	Out put	System reset				
	Interval	Programmable 1~255 sec/ min				
Power Requirement	Typical	Intel Core 2 Duo 2.13 GHz and four 1 GB DDR2 667Mhz SDRAM				
		+12 V	+5 V	+3.3 V	5 Vsb	
		10A	4.5A	4A	1A	
Environment	Operating					Non-Operating
	Temperature	0~55° C (32 ~ 131° F), depends on CPU's speed and cooler solution				-20 ~ 70° C (-4 ~ 158° F)
Physical Characteristics	Dimensions (W x D)	304.8 x 244 mm (12" x 9.6")				

Block Diagram



Ordering Information

Part Number	VGA	GbE LAN
AIMB-764G2-00A1E	Yes	Dual

**We strongly suggest using only Advantech's certified LGA 775 CPU coolers to ensure board reliability under harsh conditions.

Riser Card

Part Number	Description
AIMB-R430P-03A1E	2U riser card with 3 PCI slot expansion
AIMB-R4301-03A1E	2U riser card with 3 PCIe x 1 slot expansion
AIMB-R4104-01A1E	1U riser card with 1 PCIe x 4 slot expansion
AIMB-R431F-21A1E	2U riser card with 1 PCIe x 16 & 2 PCIe x 1 slot expansion
AIMB-R43PF-21A1E	2U riser card with 1 PCIe x 16 & 2 PCI slot expansion

Bracket View



AIMB-764G2-00A1E

Packing List

Part Number	Description	Quantity
1700003194	Serial ATA HDD data cable	x 2
1703150102	Serial ATA HDD power cable	x 2
1701090401	COM port cable kit	x 1
9689000068	Jumper pack	x 1
1960012533T100	I/O port bracket	x 1
-	Startup manual	x 1
-	Utility CD	x 1

Accessories

Part Number	Description
1750001661	LGA 775 CPU Cooler for 2U chassis (supports Core 2 Duo, Pentium 4 max. 3.4 GHz, and Celeron D processors)
1750000334	LGA 775 CPU Cooler for 4U+ chassis (supports Core 2 Duo, Pentium 4 and Celeron D processor)
1700002314	USB cable with four ports, 30.5cm
1700002204	USB cable with dual ports, 27cm
1700003195	USB cable with dual ports, 17.5cm

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Advantech:](#)

[AIMB-764G2-00A1E](#)