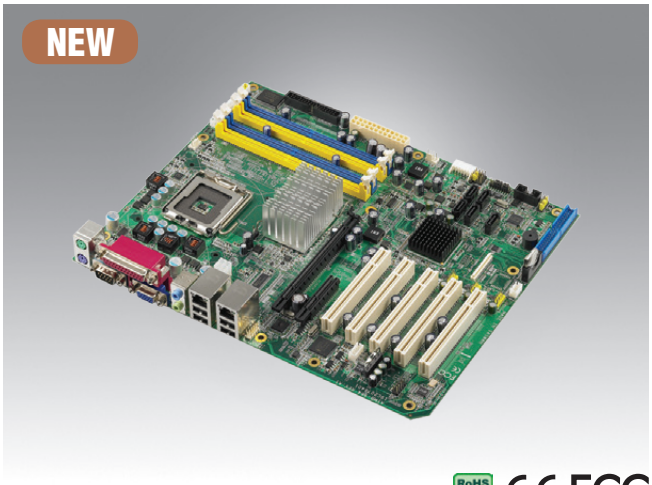
AIMB-764

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



Features

- Intel® Q965 533/800/1066 MHz FSB
- Supports Intel Core™ 2 Duo processor
- Dual channel DDR2 533/667/800 SDRAM up to 8GB
- PCIex16,5 SATA ports and Dual LAN
- Supports Embedded Software API and Utility

Software APIs: H/W Monitor, Watchdog

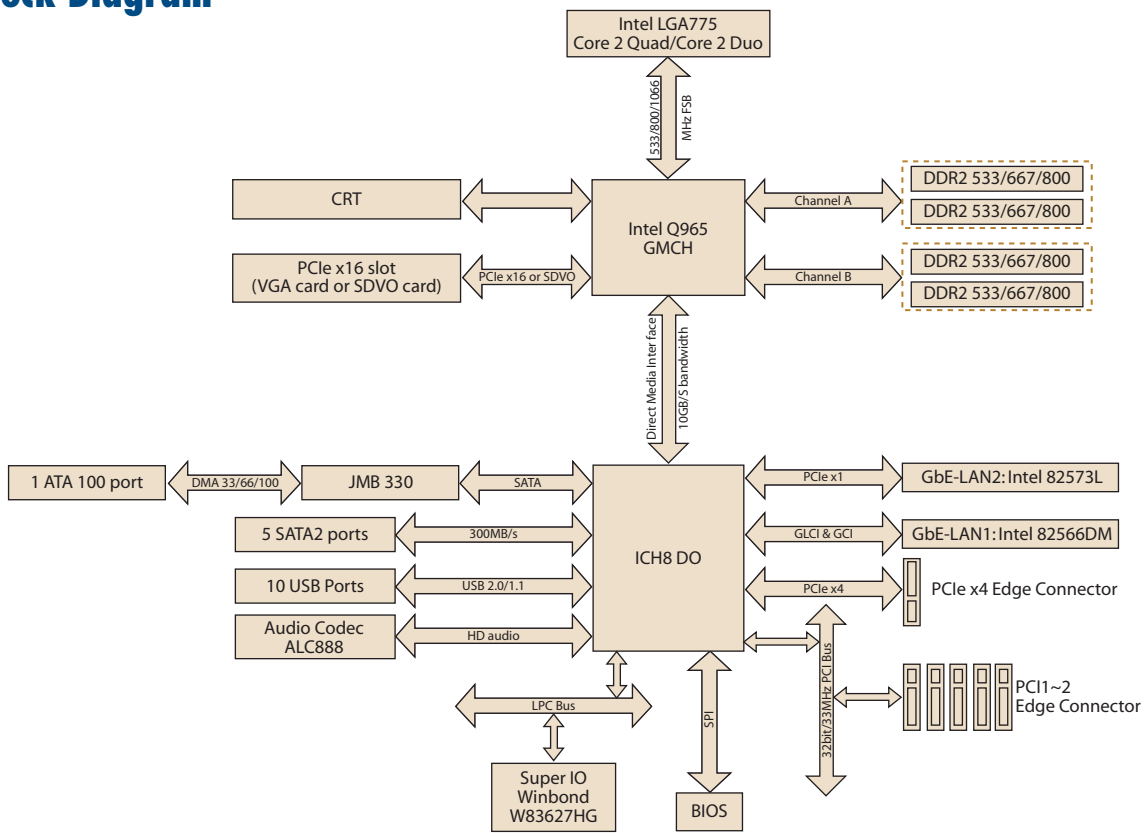
Utility: BIOS flash, Monitoring

Specifications

Processor System	CPU (45nm/ 65nm/ 90nm)	Intel Core 2 Quad	Core 2 Duo	Pentium dual-core	Pentium 4	Celeron D
	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")				

All product specifications are subject to change without notice

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 1PCIex16 & 2PCIex1 slot expansion
AIMB-R43PF-21A1E	2U riser card with 1PCIex16 & 2PCI 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