

# AIMB-766

Intel® LGA775 Core™ 2 Quad/Core™ 2 Duo ATX with VGA, 4 COM, and Dual LAN



## Features

- Intel® Q35 and ICH9 DO supporting 800/1066/1333 MHz FSB
- Supports dual core and quad core process with 45nm processing
- Dual channel DDR2 667/800 SDRAM up to 8 GB
- Supports AMT 3.0
- Supports 4 PCI and 2 PCIe x1
- Supports 6 SATA II and software RAID 0, 1, 5, 10
- Built in with dual GbE controllers
- Supports optional TPM module



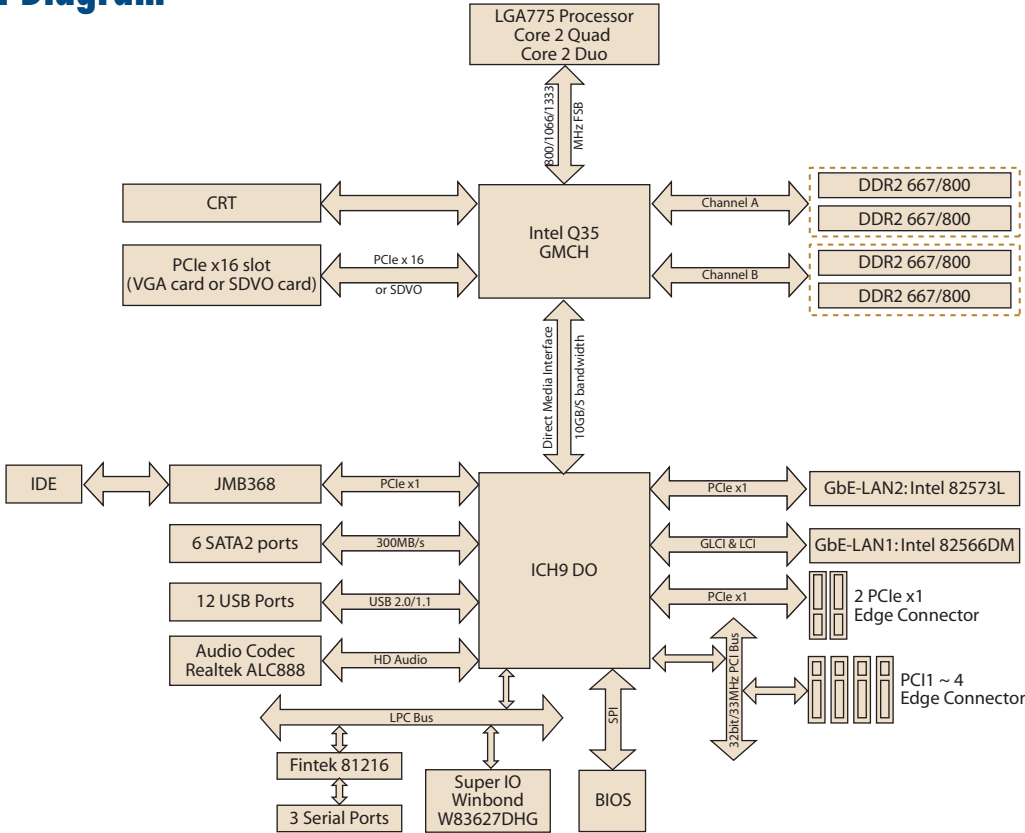
CE FCC

## Specifications

Processor System	CPU (45/65nm)	Intel Core 2 Quad	Intel Core 2 Duo	Intel Pentium Dual-Core	Intel Celeron	
	Max. Speed	Q9400 2.66 GHz	E8500 3.16 GHz	E2200 2.2 GHz	440 2.0 GHz	
	L2 Cache	6 MB	6 MB	1 MB	512 KB	
	Chipset	Intel Q35 + ICH9 DO				
	BIOS	AMI 32 Mbit, SPI				
	Front Side Bus	800/1066/1333 MHz				
Expansion Slot	PCIe x16	4.0 GB/s per direction, 1 slot				
	PCIe x1	250 MB/s per direction, 2 slot				
	PCI	32-bit/33 MHz, 4 slots				
Memory	Technology	Dual channel DDR2 667/800 MHz				
	Max. Capacity	8 GB				
	Socket	4x 240-pin DIMM				
Graphics	Embedded	Intel GMA 3100 sharing 384 MB system memory				
	Add-on	PCIe x16 slot				
Ethernet	Interface	10/100/1000 Mbps				
	Controller	GbE-LAN1: Intel 82566DM, GbE-LAN2: Intel 82573L				
	Connector	RJ-45 x 2				
SATA II	Max. Data Transfer Rate	300 MB/s				
	Channel	6				
EIDE	Mode	ATA 100/66/33				
	Channel	1 (max. 2 devices)				
I/O Interface	VGA	1				
	USB	12				
	Audio	2 (Mic-in, Line-out)				
	Serial	4 (3 of RS-232, 1 of RS-232/422/485)				
	Parallel	1 (SPP/EPP/ECP)				
	FDD	1				
Watchdog Timer	PS/2	2 (1 x keyboard and 1 x mouse)				
	Output	System reset				
Power Requirement	Interval	Programmable 1~ 255 sec/min				
	Power On	Intel Core 2 Quad9300 2.5 Ghz (1333 MHz FSB), 4 x 1 GB DDR2 800 SDRAM				
		+5 V	+3.3 V	+12 V	+5 Vsb	-12 V
Environment		3.58 A	2.86 A	3.52 A	0.74 A	0.02 A
	Temperature	Operating 0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution			Non-Operating -20 ~ 70° C (-4 ~ 158° F)	
Physical Characteristics	Dimensions (W x D)	304.8 x 244 mm (12" x 9.6")				



### Board Diagram



### Ordering Information

	Chipset	GbE	COM	SATA	SW RAID	AMT 3.0
AIMB-766VG-00A1E	Q35/ICH9	Single	4	4	None	None
AIMB-766G2-00A1E	Q35/ICH9 DO	Dual	4	6	Yes	Yes

### Riser Card

Part Number	Description
AIMB-RP30P-03A1E	2U riser card with 3 PCI expansion
AIMB-RP3PF-21A1E	2U riser card with 2 PCI and PCIe x16 expansion

### Bracket View



AIMB-766VG-00A1E



AIMB-766G2-00A1E

### Packing List

Description	Quantity
IDE HDD cable	x 1
FDD cable	x 1
Serial ATA HDD data cable	x 2
Serial ATA HDD power cable	x 2
COM port cable kit	x 2
I/O port bracket	x 1
Startup manual	x 1
Utility CD	x 1

### Accessories

Part Number	Description
1750000334	LGA775 CPU cooler for 4U, 5U, and 7U chassis
1960022033T000	LGA775 CPU cooler for 2U chassis
1960013266T000	LGA775 CPU cooler for ACP-1320 (only for Core 2 Duo)
1700002204	USB cable with dual ports, 27 cm
9680004525	TPM module