

# AKMB-G41

Intel® Core™2 Quad LGA 775 MicroATX  
with CRT, 6 COM, Single LAN



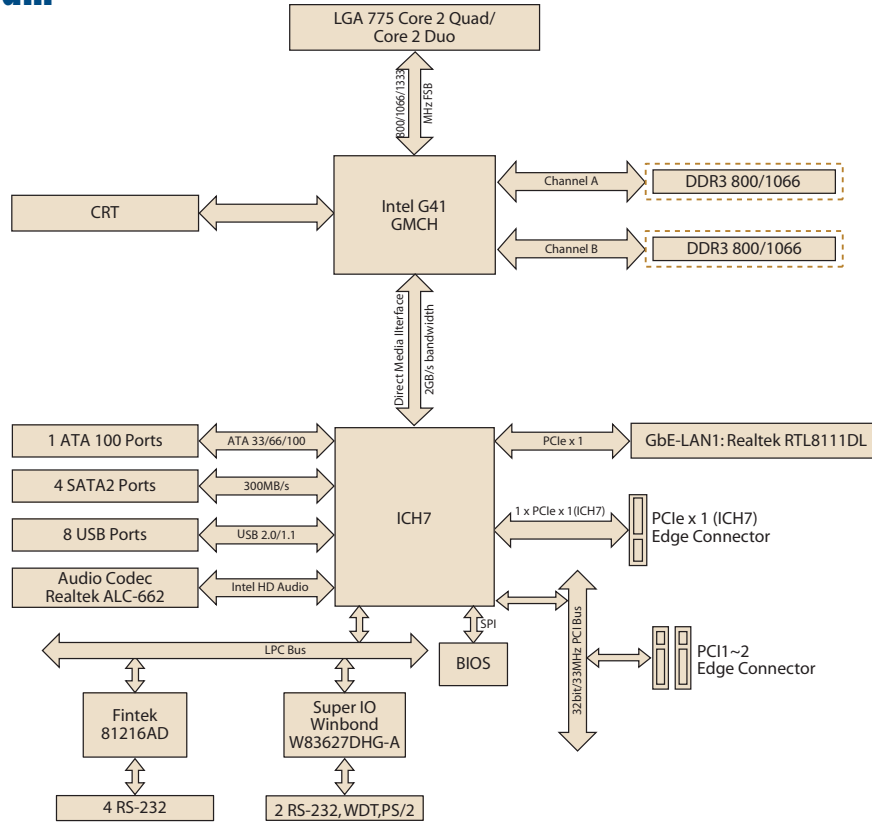
## Features

- Intel® G41 chipset supports 800/1066 MHz FSB
- Dual channel DDR3 800/1066 SDRAM up to 4 GB
- Supports single display CRT
- Supports dual core and quad core processors with 45 nm processing

## Specifications

Processor System	CPU (45 nm/65 nm)	Intel Core 2 Quad	Intel Core 2 Duo	Intel Pentium Dual-Core	Intel Celeron	
	Max. Speed	Q9400 2.66 GHz	E8500 3.16 GHz	E6500 2.6 GHz	E1500 2.2 GHz	
	L2 Cache	6 MB	6 MB	6 MB	512 KB	
	Chipset	Intel G41+ICH7				
	BIOS	AMI 8 Mbit, SPI				
	Front Side Bus	800/1066/1333 MHz				
Expansion Slot	PCIe x16 (Gen2)	4.0 GB/s per direction, 1 slot				
	PCIe x1	250 MB per direction, 1 slot				
	PCI	32-bit/33 MHz, 2 slots				
Memory	Technology	Dual channel DDR3 800/1066 MHz SDRAM				
	Max. Capacity	4 GB				
	Socket	2 x 240-pin DIMM (Non-ECC)				
Graphics	Embedded	Intel GMA X4500 shared 352 MB system memory				
	DVI	-				
	Dual Display	CRT only				
Ethernet	Interface	10/100/1000 Mbps				
	Controller	GbE LAN1: Realtek RTL8111DL				
	Connector	RJ-45 x 1				
SATA II	Max. Data Transfer Rate	300 MB/s				
	Channel	4				
EIDE	Mode	ATA 100/66/33				
	Channel	1 (max. 2 devices)				
I/O Interface	VGA	1				
	USB	8				
	Audio	3 (Line-in, Line-out, Mic-in)				
	Serial	6 (2 RS-232 with 5V/12V, 4 RS-232)				
	Parallel	-				
	FDD	-				
	PS/2	2 (1 x keyboard and 1 x mouse)				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1 ~ 255 sec/min				
Power Requirement	Power On	Intel Core 2 Quad Q9400 2.66 GHz FSB 1333 MHz, 4 GB DDR3 1066 SDRAM				
		3.3 V	5 V	12 V	5 Vsb	-12 V
		0.19 A	2.98 A	3.48 A	0.18 A	0.18 A
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 (W x D)	244 x 244 mm (9.6" x 9.6")				

### Block Diagram



### Ordering Information

Part Number	MOQ	Chipset	GbE	COM
AKMB-G41MF-00A1E	200 pcs	G41/ICH7	1	6

### I/O View



AKMB-G41MF-00A1E

### Packing List

Description	Quantity
Serial ATA HDD data cable	2
Serial ATA HDD power cable	2
I/O port bracket	1
Startup manual	1
Utility CD	1

### Optional Accessories

Part Number	Description
1750000334	LGA775 CPU cooler (115 W)
1960022033T000	LGA775 CPU cooler for 2U chassis
1700008461	USB cable with four ports, 30.5 cm
1700002204	USB cable with dual ports, 27 cm
1700003195	USB cable with dual ports, 17.5 cm
1701092300	1-to-2 com port cable kit