Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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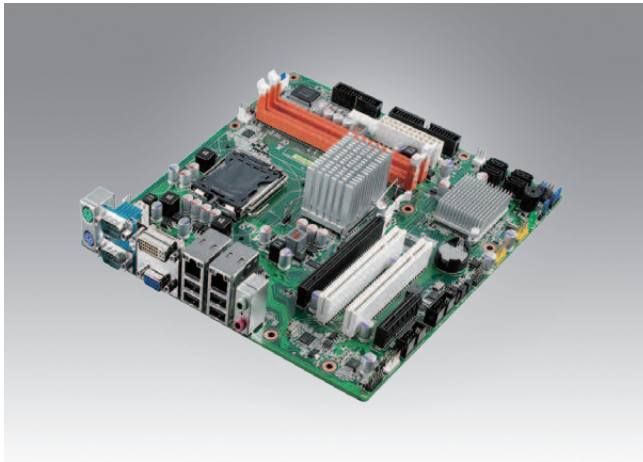Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
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AIMB-567

**Intel® Core™2 Quad LGA 775 MicroATX
with Dual VGA/DVI, 4 COM, dual LAN**

Features

- Intel® G41 chipset supports 800/1066/1333 MHz FSB
- Dual channel DDR3 800/1066 MHz SDRAM up to 4 GB
- Supports dual display, VGA and DVI-D
- Supports dual core and quad core processors with 45nm processing
- Supports SATA RAID 0,1,5,10 for G2 version
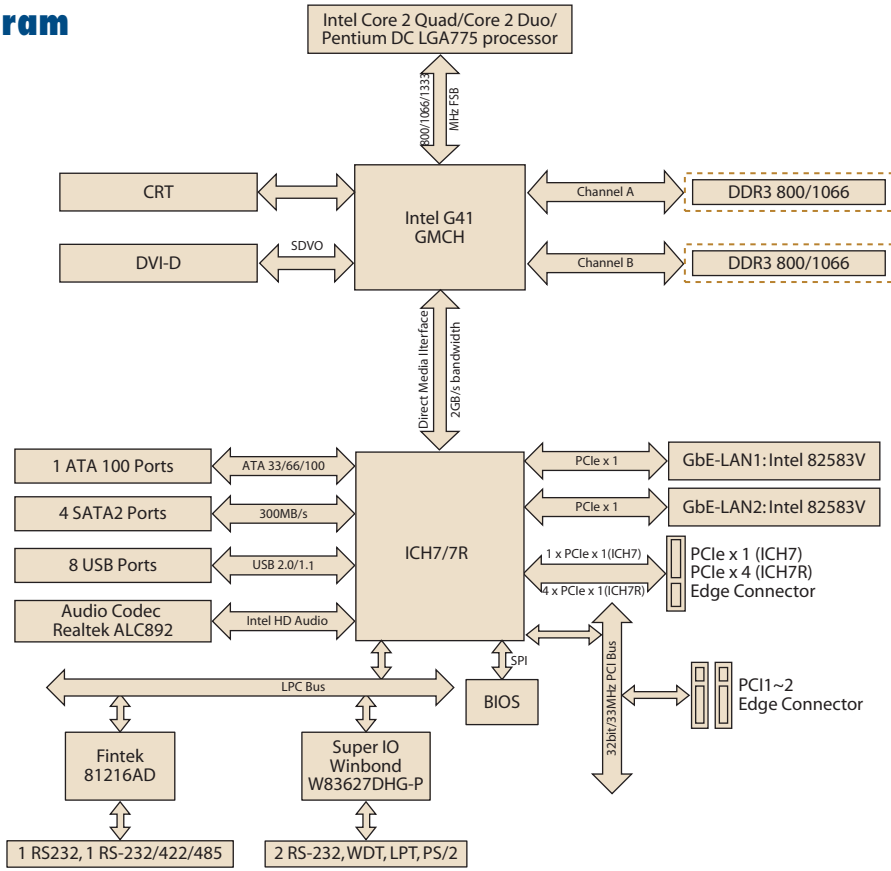- Supports SUSIAccess and Embedded Software APIs

Software APIs:

SMBus   H/W Monitor   GPIO   Watchdog

Utilities:

BIOS flash   Monitoring

Windows Embedded

SUSIAccess   RoHS COMPLIANT 2002/95/EC   CE FCC

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(VG), Intel G41+ICH7R(G2)			
	BIOS	AMI 16 Mbit, SPI			
	Front Side Bus	800/1066/1333 MHz			
Expansion Slot	PCIe x16 (Gen2)	4.0 GB/s per direction, 1 slot			
	PCIe x4	1 GB/s per direction, 1 slot (G2)			
	PCIe x1	250 MB per direction, 1 slot (VG)			
	PCI	32-bit/33 MHz, 2 slots			
Memory	Technology	Dual channel DDR3 800/1066 MHz SDRAM (not compatible with 256 x 8 DDR3 RAM)			
	Max. Capacity	4 GB			
	Socket	2 x 240-pin DIMM (Non-ECC)			
Graphics	Embedded	Intel GMA X4500 shared 352 MB system memory			
	DVI	Yes (If DVI is used, PCIe x16 is automatically disabled), via Chrontel 7318C Transmitter			
	Dual Display	CRT+DVI			
Ethernet	Interface	10/100/1000 Mbps			
	Controller	GbE LAN1: Intel 82583V, GbE LAN2: Intel 82583V			
	Connector	RJ-45 x 2			
SATA II	Max. Data Transfer Rate	300 MB/s			
	Channel	4			
EIDE	Mode	ATA 100/66/33			
	Channel	1 (max. 2 devices)			
Rear I/O	VGA	1			
	DVI	1			
	Ethernet	2			
	USB	4 (USB 2.0)			
	Audio	2 (Mic-in, Line-out)			
	Serial	2 (RS-232)			
	PS/2	2 (1 x keyboard and 1 x mouse)			
Internal Connector	USB	4 (USB 2.0)			
	Serial	2 (1 x RS-232, 1 x RS-232/422/485 to support auto flow control)			
	IDE	1			
	SATA	4			
	FDD	-			
	Parallel	1			
	GPIO	8-bit GPIO			
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			

Power Requirement		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")	

ADVANTECH   **Industrial Motherboards**

Block Diagram

Intel Core 2 Quad/Core 2 Duo/Pentium DC LGA775 processor

800/1066/1333 MHz FSB

Intel G41 GMCH

CRT

DVI-D — SDVO

Channel A — DDR3 800/1066
Channel B — DDR3 800/1066

Direct Media Interface 2GB/s bandwidth

ICH7/7R

1 ATA 100 Ports — ATA 33/66/100
4 SATA2 Ports — 300MB/s
8 USB Ports — USB 2.0/1.1
Audio Codec Realtek ALC892 — Intel HD Audio

PCIe x 1 — GbE-LAN1: Intel 82583V
PCIe x 1 — GbE-LAN2: Intel 82583V
1 x PCIe x 1 (ICH7) / 4 x PCIe x 1 (ICH7R) — PCIe x 1 (ICH7) PCIe x 4 (ICH7R) Edge Connector

LPC Bus

SPI

BIOS

32bit/33MHz PCI Bus — PCI1~2 Edge Connector

Fintek 81216AD

Super IO Winbond W83627DHG-P

1 RS232, 1 RS-232/422/485

2 RS-232, WDT, LPT, PS/2

Ordering Information

Part Number	Chipset	Display	GbE	SW RAID	PCIe x4	PCIe x1
AIMB-567G2-00A1E	G41/ICH7R	CRT/DVI	2	Yes	1	-
AIMB-567VG-00A1E	G41/ICH7	CRT	1	No	-	1

*We strongly suggest using only Advantech's certified LGA775 CPU coolers to ensure board reliability under harsh conditions.

Riser Card

Part Number	Description
AIMB-RP3PF-21A1E	2U riser card with 1 PCIe x16 & 2 PCI slot expansion
AIMB-RP30P-03A1E	2U riser card for 3 PCI expansion
AIMB-RP10P-01A1E	1U riser card for 1 PCI expansion

I/O View

AIMB-567G2-00A1E

AIMB-567VG-00A1E

Packing List

Description	Quantity
IDE HDD cable	1
Serial ATA HDD data cable	2
Serial ATA HDD power cable	2
COM port cable kit	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
1700008809	Printer port cable
1700018699	KBMS cable 1*6P-2.5/DIN-6P(F)*2, 25 cm
1960048353T000	1U I/O port bracket

Embedded OS/API

OS/API	Part No.	Description
Win XPE	2070010378	XPE WES 2009 AIMB-567 V4.0 JPN
	2070011072	XPE WES09 AIMB-567 V4.0 ENG_CHT ATIP
Software API		SUSI V3.0

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