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!

Contact us

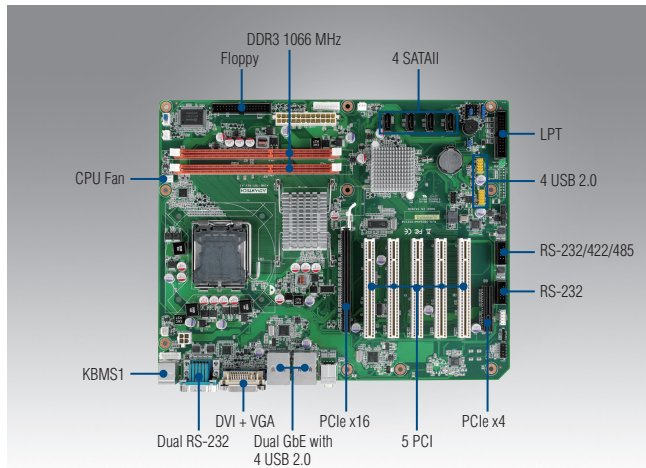Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
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AIMB-767

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

DDR3 1066 MHz
Floppy
4 SATAII
LPT
CPU Fan
4 USB 2.0
RS-232/422/485
RS-232
KBMS1
DVI + VGA
Dual RS-232
PCIe x16
Dual GbE with
4 USB 2.0
5 PCI
PCIe x4

Quiet

CE FCC

Features

- Intel® G41 chipset supports 800/1066/1333 MHz FSB

- Dual channel DDR3 800/1066 supports up to 8 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

- Supports Embedded software APIs and utilities

Specifications
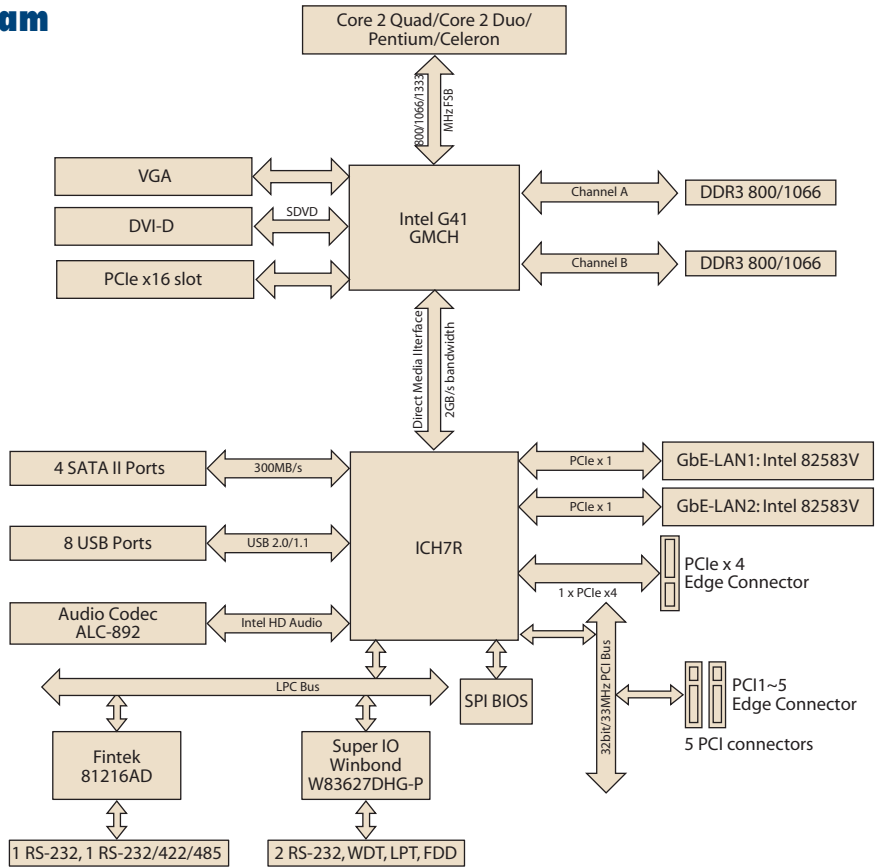
<table>
<tr><td rowspan="7">Processor System</td><td>CPU (45nm/65nm)</td><td>Intel Core 2 Quad</td><td>Intel Core 2 Duo</td><td>Intel Pentium</td><td>Intel Celeron</td></tr>
<tr><td>Max. Speed</td><td>Q9650 3.0 GHz</td><td>E8500 3.16 GHz</td><td>E6500 2.93 GHz</td><td>E1500 2.2 GHz</td></tr>
<tr><td>L2 Cache</td><td>12 MB</td><td>6 MB</td><td>8 MB</td><td>512 KB</td></tr>
<tr><td>Chipset</td><td colspan="4">Intel G41 + ICH7R</td></tr>
<tr><td>BIOS</td><td colspan="4">AMI 16 Mbit, SPI</td></tr>
<tr><td>Front Side Bus</td><td colspan="4">800/1066/1333 MHz</td></tr>
<tr><td rowspan="3">Expansion Slot</td><td>PCIe x16</td><td colspan="4">4.0 GB/s per direction, 1 slot</td></tr>
<tr><td>PCIe x4</td><td colspan="4">1 GB/s per direction, 1 slot</td></tr>
<tr><td>PCI</td><td colspan="4">32-bit/33 MHz, 5 slots</td></tr>
<tr><td rowspan="3">Memory</td><td>Technology</td><td colspan="4">Dual channel DDR3 800/1066 MHz</td></tr>
<tr><td>Max. Capacity</td><td colspan="4">8 GB</td></tr>
<tr><td>Socket</td><td colspan="4">2 x 240-pin DIMM</td></tr>
<tr><td rowspan="3">Graphics</td><td>Embedded</td><td colspan="4">Intel GMA X4500 shared 352 MB system memory</td></tr>
<tr><td>DVI</td><td colspan="4">Yes (If PCIe x16 slot is used, DVI is automatically disabled)</td></tr>
<tr><td>Dual Display</td><td colspan="4">VGA + DVI</td></tr>
<tr><td rowspan="3">Ethernet</td><td>Interface</td><td colspan="4">10/100/1000 Mbps</td></tr>
<tr><td>Controller</td><td colspan="4">GbE LAN1: Intel 82583V, GbE LAN2: Intel 82583V</td></tr>
<tr><td>Connector</td><td colspan="4">RJ-45 x 2</td></tr>
<tr><td rowspan="2">SATA II</td><td>Max. Data Transfer Rate</td><td colspan="4">300 MB/s</td></tr>
<tr><td>Channel</td><td colspan="4">4</td></tr>
<tr><td rowspan="7">Rear I/O</td><td>VGA</td><td colspan="4">1</td></tr>
<tr><td>DVI</td><td colspan="4">1</td></tr>
<tr><td>Ethernet</td><td colspan="4">2</td></tr>
<tr><td>USB</td><td colspan="4">4</td></tr>
<tr><td>Audio</td><td colspan="4">2 (Line-out, Mic-in)</td></tr>
<tr><td>Serial</td><td colspan="4">2 (2 x RS-232)</td></tr>
<tr><td>PS/2</td><td colspan="4">2 (1 x keyboard and 1 x mouse)</td></tr>
<tr><td rowspan="5">Internal Connectors</td><td>USB</td><td colspan="4">4</td></tr>
<tr><td>Serial</td><td colspan="4">2 (1 x RS-232/422/485 with auto-flow control)</td></tr>
<tr><td>Parallel</td><td colspan="4">1</td></tr>
<tr><td>SATA</td><td colspan="4">4</td></tr>
<tr><td>FDD</td><td colspan="4">1</td></tr>
<tr><td rowspan="2">Watchdog Timer</td><td>Output</td><td colspan="4">System reset</td></tr>
<tr><td>Interval</td><td colspan="4">Programmable 1 ~ 255 sec</td></tr>
<tr><td rowspan="3">Power Requirement</td><td>Power On</td><td colspan="4">Intel Core 2 Quad Q9400 2.66 GHz FSB 1333 MHz, 2 x 2 GB DDR3 1066 SDRAM</td></tr>
<tr><td></td><td>3.3 V</td><td>5 V</td><td>12 V</td><td>5 Vsb</td><td>-12 V</td></tr>
<tr><td></td><td>0.28 A</td><td>3.12 A</td><td>2.52 A</td><td>0.6 A</td><td>0.24 A</td></tr>
<tr><td rowspan="2">Environment</td><td></td><td colspan="2">Operating</td><td colspan="2">Non-Operating</td></tr>
<tr><td>Temperature</td><td colspan="2">0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution</td><td colspan="2">-40 ~ 85° C (-40 ~ 185° F)</td></tr>
<tr><td>Physical Characteristics</td><td>Dimensions (W x D)</td><td colspan="4">304.8 x 244 mm (12" x 9.6")</td></tr>
</table>

Block Diagram

Ordering Information

Part Number	Chipset	Display	GbE LAN	SW RAID	PCIe x16	PCIe x4
AIMB-767G2-00A2E	G41/ICH7R	VGA/DVI	2	Yes	1	1

Packing List

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

I/O View

AIMB-767G2-00A2E

Optional Accessories

Part Number	Description
1750000334	LGA775 CPU cooler for 4U chassis
1750000332	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 kit (25 cm)
1700020294-01	Printer port cable kit (42 cm)
1700340640	FDD cable
1960048353T000	I/O port bracket for 1U chassis

Riser Card

Part Number	Description
AIMB-RP3PF-21A1E	2U riser card with 1 PCIe x 16 & 2 PCI slot expansion
AIMB-RP30P-03A1E	2U riser card for 3 PCI expansion
AIMB-RP10P-01A1E	1U riser card for 1 PCI expansion