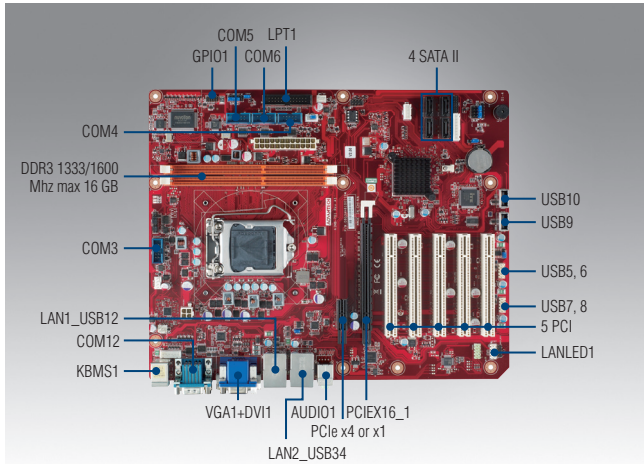


AIMB-701

LGA1155 3rd Intel® Core™ i7/i5/i3/
Pentium® ATX with DVI/VGA, Dual GbE LAN



Features

- Supports Intel® Core™ i7/i5/i3/Pentium® processor with H61 chipset
- Two DIMM sockets support up to 16 GB DDR3 1066/1333/1600
- Supports dual display VGA/DVI-D and dual GbE LAN
- Supports RS-232/422/485 with auto flow control
- Supports one PCIe x16 and 5 PCI expansion slots

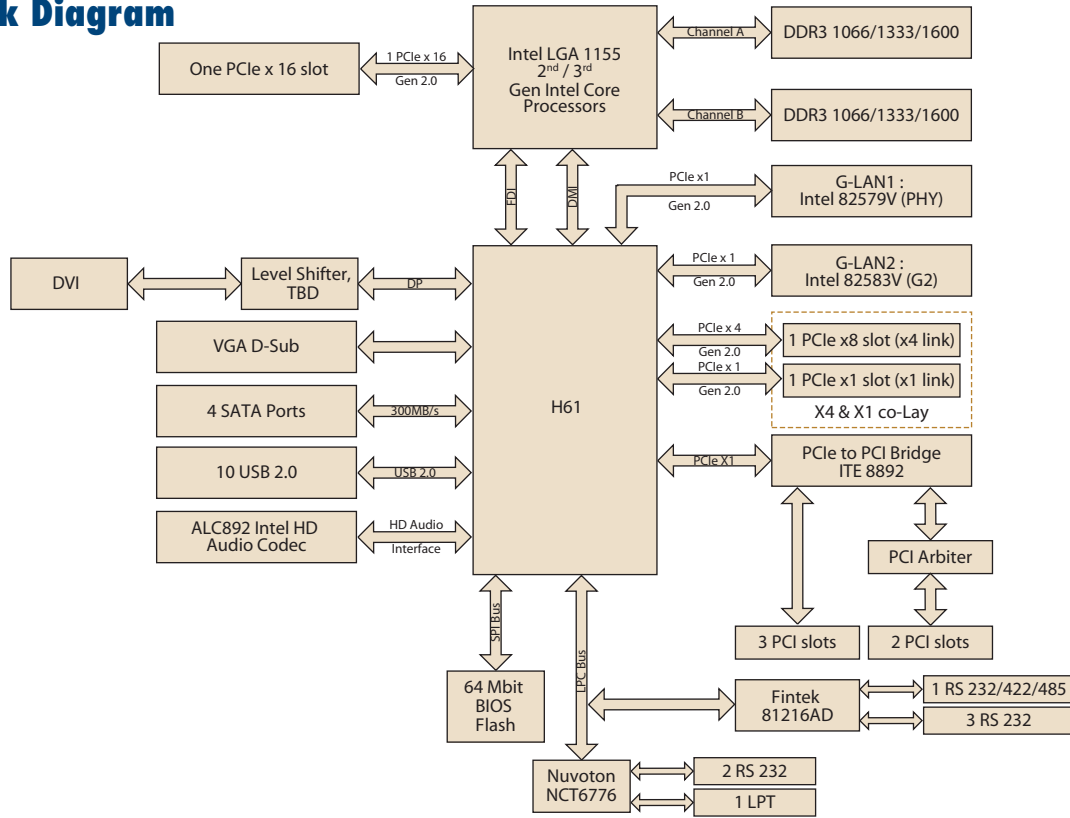
Quiet

Specifications

CE FCC

| | | | | | |
|--------------------------|------------------------|---|--------------|----------------------------|--------------|
| Processor System | CPU | Core i7 3xxx | Core i5 3xxx | Core i3 3xxx | Pentium G8xx |
| | Speed | 3.4 GHz | 3.4/3.3 GHz | 3.4 GHz | 2.9 GHz |
| | L3 Cache | 8 MB | 6 MB | 3 MB | 3 MB |
| | Socket | LGA1155 | | | |
| | Chipset | H61 | | | |
| | BIOS | AMI 64 Mbit SPI | | | |
| Expansion Slot | PCI | 32-bit/33 MHz, 5 slots | | | |
| | PCIe x 1 (Gen2) | 500 MB/s, 1 slot for G2 SKU | | | |
| | PCIe x 4 (Gen2) | 2.0 GB/s, 1 slot for VG SKU | | | |
| | PCIe x16 (Gen2) | 8 GB/s, 1 slot | | | |
| Memory | Technology | Dual Channel DDR3 1066/1333/1600 (1600 is only supported by Core i7/i5/i3 3xxx series processors) | | | |
| | Max. Capacity | 16 GB | | | |
| | Socket | 2 x 240-pin DIMM | | | |
| Graphics | Controller | Intel HD Graphics | | | |
| | VRAM | 1 GB maximum shared memory with 2 GB and above system memory installed | | | |
| Ethernet | Interface | 10/100/1000 Mbps | | | |
| | Controller | GbE LAN1: Intel 82579V, GbE LAN2: Intel 82583V | | | |
| | Connector | RJ-45 x 2 | | | |
| SATA | Max Data Transfer Rate | 300 MB/s | | | |
| | Channel | 4 | | | |
| Rear I/O | VGA | 1 | | | |
| | DVI | 1 for G2 version | | | |
| | Ethernet | 2 for G2 version; 1 for VG version | | | |
| | USB | 4 | | | |
| | Audio | 2 (Mic-in, Line-out) | | | |
| | Serial | 2 (RS-232) | | | |
| | PS/2 | 2 (1 x keyboard and 1 x mouse) | | | |
| Internal Connectors | USB | 6 | | | |
| | Serial | 4 for G2 version (3 x RS-232, 1 x RS-232/422/485 with auto-flow control) | | | |
| | IDE | - | | | |
| | SATA | 4 | | | |
| | Parallel | 1 | | | |
| | IrDA | 1 | | | |
| Watchdog Timer | GPIO | 8-bit | | | |
| | Output | System reset | | | |
| Power Requirement | Interval | Programmable 1 ~ 255 sec | | | |
| | Power On | Intel i7 2600 3.4 GHz processor, DDR3 4 GB x 2 | | | |
| | | 3.3 V | 5 V | 12 V | 5 Vsb |
| Environment | | 1.01 A | 1.08 A | 5.48 A | 1.76 A |
| | 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 | 304.8 x 244 mm (12" x 9.6") | | | |

Block Diagram



Ordering Information

| Part Number | Chipset | Memory | Display | USB 2.0 | COM | GbE LAN | PCIe x1 | PCIe x4 | SW RAID |
|------------------|---------|---------|-----------|---------|-----|---------|---------|---------|---------|
| AIMB-701G2-00A1E | H61 | Non-ECC | VGA + DVI | 10 | 6 | 2 | Yes | NA | NA |
| AIMB-701VG-00A1E | H61 | Non-ECC | VGA | 10 | 2 | 1 | NA | Yes | NA |

Packing List

| Description | Quantity |
|------------------|----------|
| SATA HDD cable | x 2 |
| SATA power cable | x 1 |
| I/O port bracket | x 1 |
| Startup manual | x 1 |
| Driver CD | x 1 |

Optional Accessories

| Part Number | Description |
|-----------------|--|
| 1700002204 | Dual port USB 2.0 cable (27 cm) with bracket |
| 1960047669N001 | LGA1155/1156 CPU cooler for 4U and wallmount chassis |
| 1960047831N001 | LGA1155/1156 CPU cooler for 2U and wallmount chassis |
| 1960049408N001 | LGA1155/1156 CPU cooler for 1U and wallmount chassis |
| 1700020294-01 | Printer port cable kit (42 cm) |
| 1701092300 | COM port cable kit (28.5 cm) |
| 1700018633-05A4 | COM port cable kit (60 cm) |
| 1960055954T000 | I/O port bracket for 1U chassis |

Note 1: Purchasing AIMB-701's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with AIMB-701.

Note 2: 1960049408N001 is design to be used with Advantech 1U chassis and supports up to 73W processor, user needs to conduct thermal test before using this cooler with other brand chassis.

I/O View



AIMB-701G2-00A1E



AIMB-701VG-00A1E

Riser Card

| Part Number | Description |
|------------------|--|
| AIMB-R4104-01A1E | 1U riser card with 1 PCIe x4 expansion |
| AIMB-R430P-03A2E | 2U riser card with 3 PCI expansion |

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[GCS22.8.100.4.2.I](#) [GLS11.2.053.2.2.E](#) [A20-OLINUXINO-LIME-E16GS16M](#) [A20-OLINUXINO-LIME-S16M](#) [A20-OLINUXINO-LIME2-](#)
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