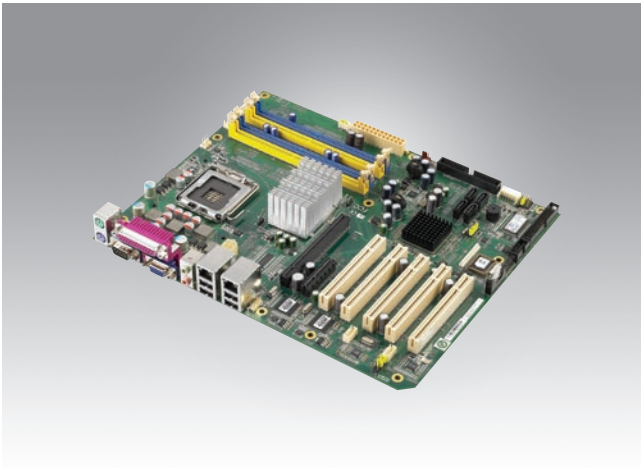


AIMB-762

LGA775 Pentium® D/Pentium 4/Celeron® D Processor-based ATX with DDR2/PCIe/Dual LAN



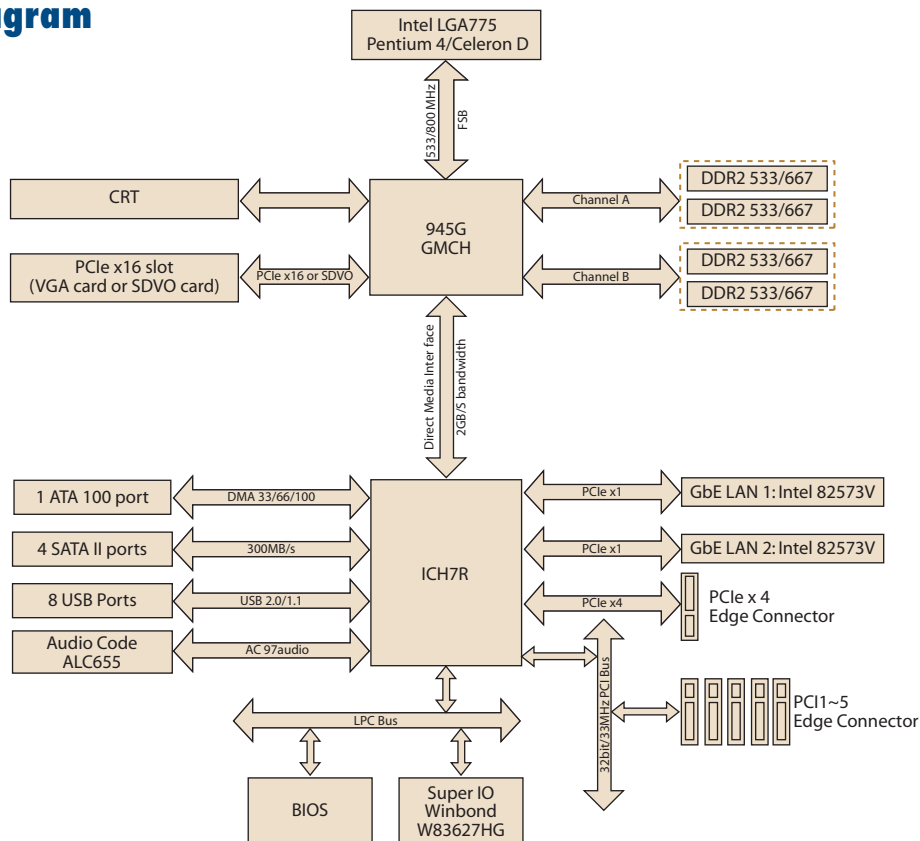
Features

- Intel® 945G chipset 800 MHz FSB
- Dual channel DDR2 533/667 SDRAM up to 4 GB
- Chipset integrated VGA sharing 224 MB system memory
- PCIe x16 slot for VGA card
- Four SATA II ports with 300 MB transfer rate and software RAID 0,1,5,10
- Supports dual 10/100/1000Base-T Ethernet via dedicated PCIe x1 bus
- Compatible with Advantech's 2U, 4U, 5U and 7U Chassis

Specifications

| | | | | |
|--------------------------|-------------------------|--|-------------------|----------------------------|
| Processor System | CPU (65nm/ 90nm) | Intel® Pentium® D | Intel® Pentium® 4 | Intel® Celeron® D |
| | Max. Speed | 3.2 GHz (Dual-core) | 3.8 GHz | 3.06 GHz |
| | L2 Cache | 4 MB | 2 MB/1 MB | 512KB/256KB |
| | Chipset | Intel 945G + ICH7R | | |
| | BIOS | Award™ 4 Mbit FWH | | |
| | Front Side Bus | 533/800 MHz | | |
| Expansion Slot | PCIe x16 | 4.0 GB/s per direction, 1 slot | | |
| | PCIe x4 | 1.0 GB/s per direction, 1 slot | | |
| | PCI | 32-bit/33 MHz, 5 slots | | |
| Memory | Technology | Dual channel DDR2 533/667 MHz | | |
| | Max. Capacity | 4 GB | | |
| | Socket | 240-pin DIMM x 4 | | |
| Graphics | Embedded | Intel GMA 950 sharing 224 MB system memory | | |
| | Add-on | PCIe x16 slot | | |
| Ethernet | Interface | 10/100/1000 Base-T | | |
| | Controller | GbE LAN1: Intel 82573V; GbE LAN2: Intel 82573V | | |
| | Connector | RJ-45 x 2 | | |
| SATA II | Max. Data Transfer Rate | 300 MB/s | | |
| | Channel | 4 (Supporting S/W RAID 0,1,5,10) | | |
| EIDE | Mode | ATA 100/66/33 | | |
| | Channel | 1 (Max. 2 devices) | | |
| I/O Interface | VGA | 1 | | |
| | USB | Max. 8 (USB 2.0 compliant), 4 ports on board | | |
| | Audio | 2 (Line-Out and Mic-In) | | |
| | Serial | 2 (1 of RS-232/422/485 on pin header, 1 of RS-232 on rear I/O) | | |
| | Parallel | 1 (SPP/EPP/ECP) | | |
| | FDD | 1 | | |
| | PS/2 | 2 | | |
| Watchdog Timer | Output | System reset | | |
| | Interval | Programmable 1 ~ 255 sec/ min | | |
| Power Requirement | Typical | Pentium D 3.2 GHz (800 MHz FSB), 4 x 1 GB DDR2 667 SDRAM | | |
| | | +5 V | +3.3 V | +12 V |
| | | 3.10 A | 1.54 A | 9.90 A |
| Environment | | Operating | | Non-Operating |
| | Temperature | 0 ~ 60° C (32 ~ 140° F), depends on CPU's speed and cooler solution. | | -20 ~ 70° C (-40 ~ 158° F) |
| Physical Characteristics | Dimensions (W x D) | 304.8 x 244 mm (12" x 9.6") | | |

Board Diagram



Ordering Information

| Part Number | Embedded VGA | PCIe x16 for VGA | GbE LAN |
|------------------|--------------|------------------|---------|
| AIMB-762VG-00A1E | Yes | Yes | Single |
| AIMB-762G2-00A1E | Yes | Yes | Dual |

*AIMB-762 cannot be installed in the ACP-2000MB chassis

**We strongly suggest using only Advantech's certified LGA 775 CPU coolers to ensure board reliability under harsh conditions.

Riser Card

| Part Number | Description |
|------------------|---|
| AIMB-R430P-03A1E | 2U riser card with 3 PCI slot expansion |
| AIMB-R4104-01A1E | 1U riser card with 1 PCIe x 4 slot expansion |
| AIMB-R4301-03A1E | 2U riser card with 3 PCIe x 1 slot expansion |
| AIMB-R431F-21A1E | 2U riser card with 1 PCIe x 16 & 1PCIex1 slot expansion |
| AIMB-R43PF-21A1E | 2U riser card with 1 PCIe x 16 & 2PCI slot expansion |

Bracket View



AIMB-762VG-00A1E



AIMB-762G2-00A1E

Packing List

| Part Number | Description | Quantity |
|----------------|----------------------------|----------|
| 1700340640 | FDD cable | x 1 |
| 1701400452 | IDE HDD cable | x 1 |
| 1700003194 | Serial ATA HDD data cable | x 2 |
| 1703150102 | Serial ATA HDD power cable | x 2 |
| 1701090401 | COM port cable kit | x 1 |
| 9689000068 | Jumper pack | x 1 |
| 1960012533T000 | I/O port bracket | x 1 |
| - | Startup manual | x 1 |
| - | Utility CD | x 1 |

Accessories

| Part Number | Description |
|-------------|--|
| 1750000334 | LGA775 CPU cooler up to 3.8 GHz (115 W), 4U, 5U and 7U chassis |
| 1750001661 | LGA775 CPU cooler up to 3.8 GHz (115 W), best for 2U and wallmount chassis |
| 1700002314 | USB cable with four ports, 30.5cm |
| 1700002204 | USB cable with dual ports, 27cm |
| 1700003195 | USB cable with dual ports, 17.5cm |