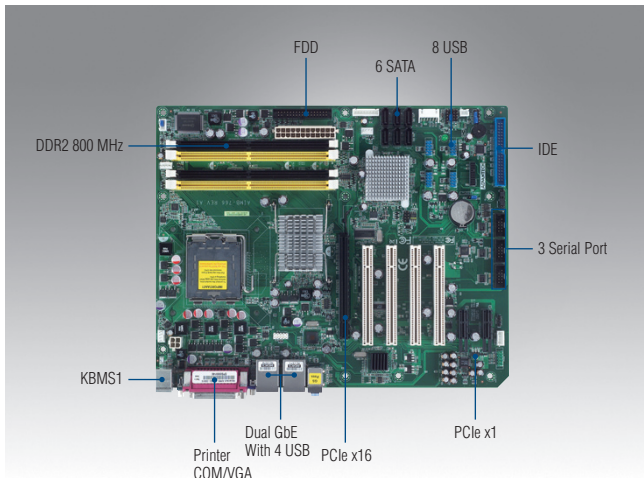


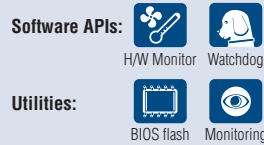
AIMB-766

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



Features

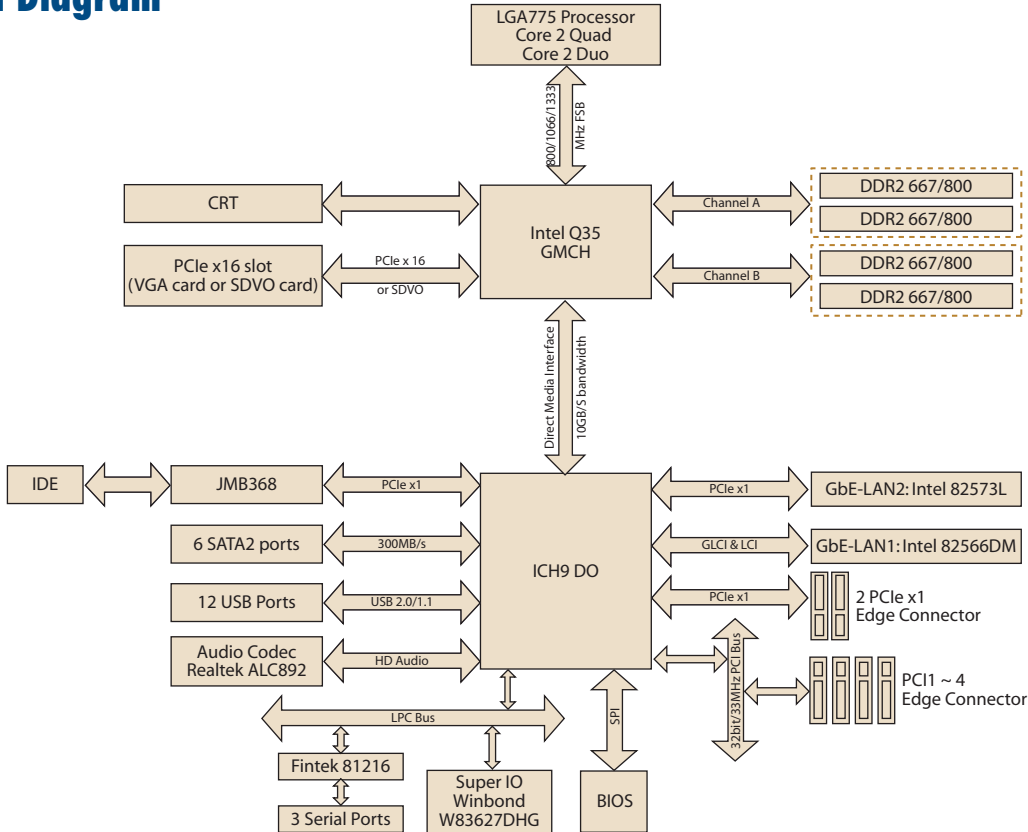
- Intel® Q35 and ICH9 DO supporting 800/1066/1333 MHz FSB
- Supports dual core and quad core process with 45nm processing
- Dual channel DDR2 667/800 SDRAM up to 8 GB
- Supports 4 PCI, 2 PCIe x1, 6 SATA ports and dual LAN
- Supports Embedded Software APIs and Utilities



Specifications

| | | | | | |
|--------------------------|-------------------------|--|------------------|-------------------------|--|
| Processor System | CPU (45/65nm) | Intel Core 2 Quad | Intel Core 2 Duo | Intel Pentium Dual-Core | Intel Celeron |
| | Max. Speed | Q9400 2.66 GHz | E8400 3.0 GHz | E5300 2.6 GHz | 440 2.0 GHz |
| | L2 Cache | 6 MB | 6 MB | 2 MB | 512 KB |
| | Chipset | Intel Q35 + ICH9 DO | | | |
| | BIOS | AMI 32 Mbit, SPI | | | |
| | Front Side Bus | 800/1066/1333 MHz | | | |
| Expansion Slot | PCIe x16 | 4.0 GB/s per direction, 1 slot | | | |
| | PCIe x1 | 250 MB/s per direction, 2 slot | | | |
| | PCI | 32-bit/33 MHz, 4 slots | | | |
| Memory | Technology | Dual channel DDR2 667/800 MHz | | | |
| | Max. Capacity | 8 GB | | | |
| | Socket | 4x 240-pin DIMM | | | |
| Graphics | Embedded | Intel GMA 3100 sharing 384 MB system memory | | | |
| | Add-on | PCIe x16 slot | | | |
| Ethernet | Interface | 10/100/1000 Mbps | | | |
| | Controller | GbE-LAN1: Intel 82566DM, GbE-LAN2: Intel 82573L | | | |
| | Connector | RJ-45 x 2 | | | |
| SATA II | Max. Data Transfer Rate | 300 MB/s | | | |
| | Channel | 6 | | | |
| EIDE | Mode | ATA 100/66/33 | | | |
| | Channel | 1 (max. 2 devices) | | | |
| Rear I/O | VGA | 1 | | | |
| | USB | 12 | | | |
| | Audio | 2 (Mic-in, Line-out) | | | |
| | Serial | 4 (3 x RS-232, 1 x RS-232/422/485) | | | |
| | Parallel | 1 (SPP/EPP/ECP) | | | |
| | FDD | 1 | | | |
| | PS/2 | 2 (1 x keyboard and 1 x mouse) | | | |
| Internal Connectors | USB | 8 | | | |
| | Serial | 3 (2 x RS-232, 1 x RS-232/422/485) | | | |
| | IDE | 1 | | | |
| | SATA | 6 | | | |
| | FDD | 1 | | | |
| Watchdog Timer | Output | System reset | | | |
| | Interval | Programmable 1~ 255 sec/min | | | |
| Power Requirement | Power On | Intel Core 2 Quad9300 2.5 Ghz (1333 MHz FSB), 4 x 1 GB DDR2 800 SDRAM | | | |
| | | +5 V | +3.3 V | +12 V | +5 Vsb -12 V |
| Environment | | 3.58 A | 2.86 A | 3.52 A | 0.74 A 0.02 A |
| | Temperature | Operating 0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution | | | Non-Operating -20 ~ 70° C (-4 ~ 158° F) |
| Physical Characteristics | Dimensions (W x D) | 304.8 x 244 mm (12" x 9.6") | | | |

Board Diagram



Ordering Information

| | Chipset | GbE | COM | SATA | SW RAID | AMT 3.0 |
|------------------|-------------|--------|-----|------|---------|---------|
| AIMB-766VG-00A2E | Q35/ICH9 | Single | 4 | 4 | None | None |
| AIMB-766G2-00A2E | Q35/ICH9 DO | Dual | 4 | 6 | Yes | Yes |

Riser Card

| Part Number | Description |
|------------------|---|
| AIMB-RP30P-03A1E | 2U riser card with 3 PCI expansion |
| AIMB-RP3PF-21A1E | 2U riser card with 2 PCI and PCIe x16 expansion |

Packing List

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

Bracket View



AIMB-766VG-00A2E



AIMB-766G2-00A2E

Optional Accessories

| Part Number | Description |
|----------------|--|
| 1750000334 | LGA775 CPU cooler for 4U, 5U, and 7U chassis |
| 1960022033T000 | LGA775 CPU cooler for 2U chassis |
| 1960013266T000 | LGA775 CPU cooler for ACP-1320 (only for Core 2 Duo) |
| 1700002204 | USB cable with dual ports, 27 cm |

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[GCS22.2.080.2.2.I](#) [GCS22.8.100.4.2.I](#) [GLS11.2.053.2.2.E](#) [A20-OLINUXINO-LIME-E16GS16M](#) [A20-OLINUXINO-LIME-S16M](#) [A20-](#)
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