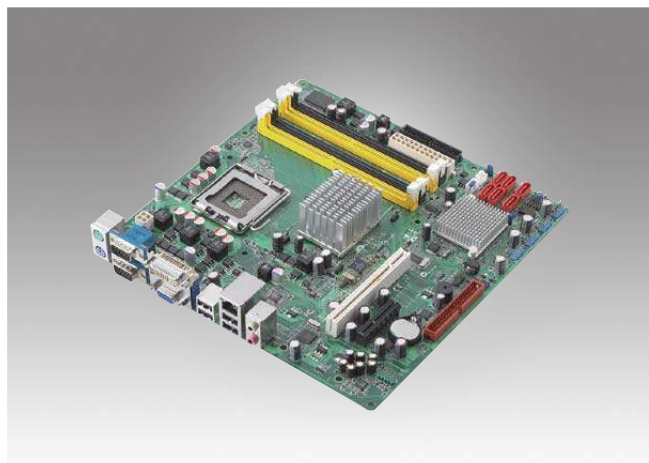


AIMB-566

Intel® Core™2 Quad/Core™2 Duo LGA775
MicroATX with CRT/DVI, 2 COM, and LAN



susiAccess CE FCC

Features

- Intel® Q35 and ICH9 DO supporting 800/1066/1333 MHz FSB
- Supports dual core and quad core processors with 45nm processing
- Dual channel DDR2 667/800 MHz SDRAM up to 8 GB
- Supports dual display, CRT and DVI-D
- Supports SUSIAccess and Embedded Software APIs

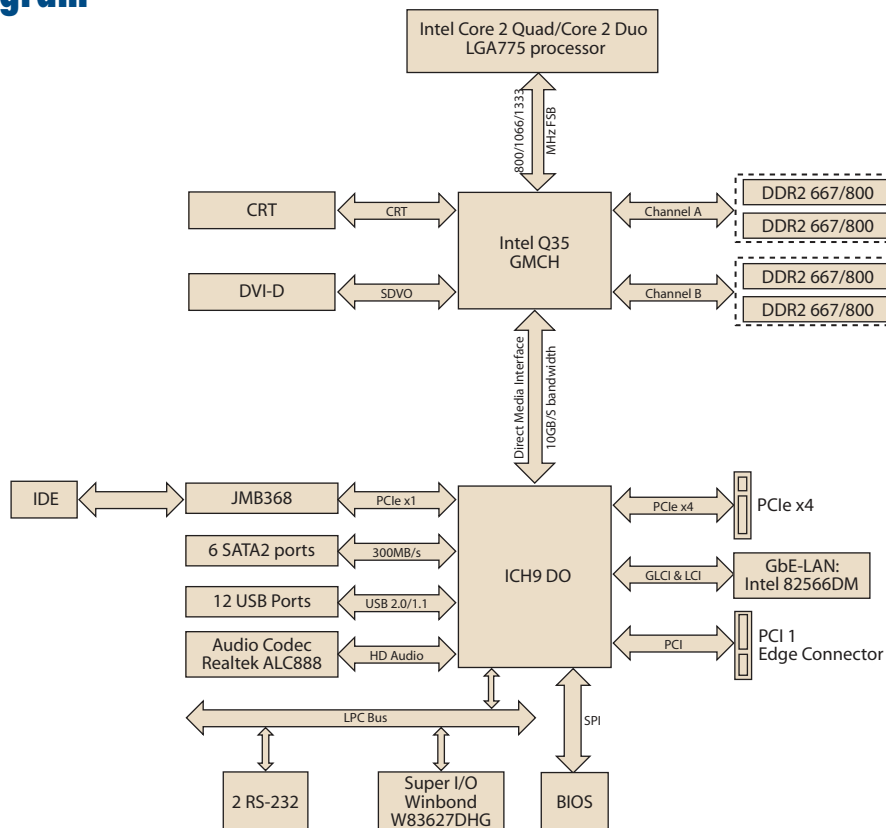
Software APIs:

Utilities:

Specifications

| | | | | | | |
|--------------------------|-------------------------|--|------------------|--|---------------|--------|
| Processor System | CPU (45/65/90nm) | Intel Core 2 Quad | Intel Core 2 Duo | Intel Pentium Dual-Core | Intel Celeron | |
| | Max. Speed | Q9400 2.66 GHz | E8500 3.16 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 x4 | 1 GB/s per direction, 1 slot | | | | |
| | PCI | 32-bit/33 MHz, 1 slot | | | | |
| Memory | Technology | Dual channel DDR2 667/800 MHz SDRAM | | | | |
| | Max. Capacity | 8 GB | | | | |
| | Socket | 4 x 240-pin DIMM (Non-ECC) | | | | |
| Graphics | Embedded | Chipset integrated VGA controller | | | | |
| | DVI | Yes, via Chrontel 7307C SDVO transmitter | | | | |
| | Dual Display | CRT + DVI | | | | |
| Ethernet | Interface | 10/100/1000 Mbps | | | | |
| | Controller | Intel 82566DM | | | | |
| | Connector | RJ-45 x 1 | | | | |
| SATA II | Max. Data Transfer Rate | 300 MB/s | | | | |
| | Channel | 6 | | | | |
| EIDE | Mode | ATA 100/66/33 | | | | |
| | Channel | 1 (max. 2 devices) | | | | |
| I/O Interface | CRT | 1 | | | | |
| | DVI-D | 1 | | | | |
| | USB | 12 | | | | |
| | Audio | 2 (Mic-in, Line-out) | | | | |
| | Serial | 2 (RS-232) | | | | |
| | FDD | 1 | | | | |
| | PS/2 | 2 (1 x keyboard and 1 x mouse) | | | | |
| Watchdog Timer | Output | System reset | | | | |
| | Interval | Programmable 1~ 255 sec/min | | | | |
| Power Requirements | Power On | Intel Core 2 Quad 9300 2.5 GHz, 8 GB DDR2 800 SDRAM | | | | |
| | | +12 V | +5 V | +3.3 V | 5 Vsb | -12 V |
| Environment | | 3.36 A | 3.15 A | 2.01 A | 0.88 A | 0.08 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) | 244 mm x 244 mm (9.6" x 9.6") | | | | |

Block Diagram



Ordering Information

| | CRT | DVI | GbE | COM | SATA |
|------------------|-----|-----|-----|-----|------|
| AIMB-566VG-00A1E | 1 | 1 | 1 | 2 | 6 |

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

Riser Card

| Part Number | Description |
|------------------|-----------------------------------|
| AIMB-RP10P-01A1E | 1U riser card for 1 PCI expansion |
| AIMB-RP30P-03A1E | 2U riser card for 3 PCI expansion |

I/O View



AIMB-566VG-00A1E

Packing List

| Description | Quantity |
|----------------------------|----------|
| IDE HDD cable | 1 |
| Floppy cable | 1 |
| Serial ATA HDD data cable | 2 |
| Serial ATA HDD power cable | 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 |
| 1700003195 | USB cable with two ports, 17.5 cm |
| 1700002204 | USB cable with two ports, 27 cm |
| 1700008461 | USB cable with four ports, 30.5 cm |

Embedded OS/API

| OS/API | Part No. | Description |
|--------------|------------|---------------------------------|
| Win XPE | 2070005289 | XPE FP2007 AIMB-566 V3.01 ENG |
| | 2070005290 | XPE FP2007 AIMB-566 V3.01 CH |
| Software API | 205E000021 | SUSI 3.0 SW API for AIMB-566 XP |