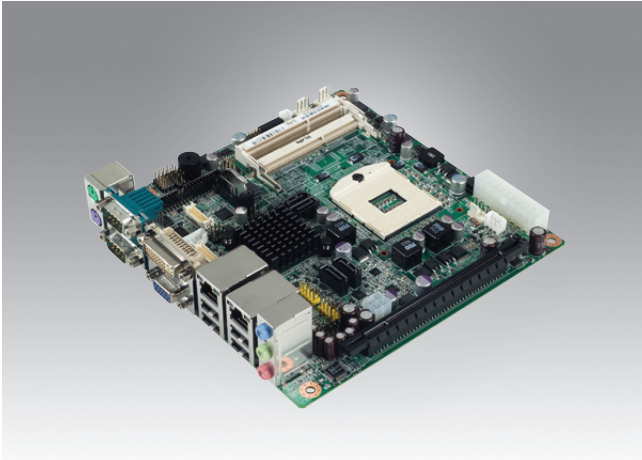


AIMB-270

Intel® Core™ i7/i5/Celeron uFC-PGA989 Mini-ITX with CRT/2DVI/LVDS, 6 COM, Dual LAN, PCIe x16



Features

- Supports Intel® Core™ i7 and i5 mobile processor (PGA) with Intel QM57 chipset
- Supports dual display of 2 DVI, LVDS, and CRT
- Supports PCIe x16 (Gen 2) and mini PCIe
- Supports, AMT6.0 and software RAID 0, 1, 5, 10
- Supports SUSIAccess and Embedded Software APIs

Software APIs:     

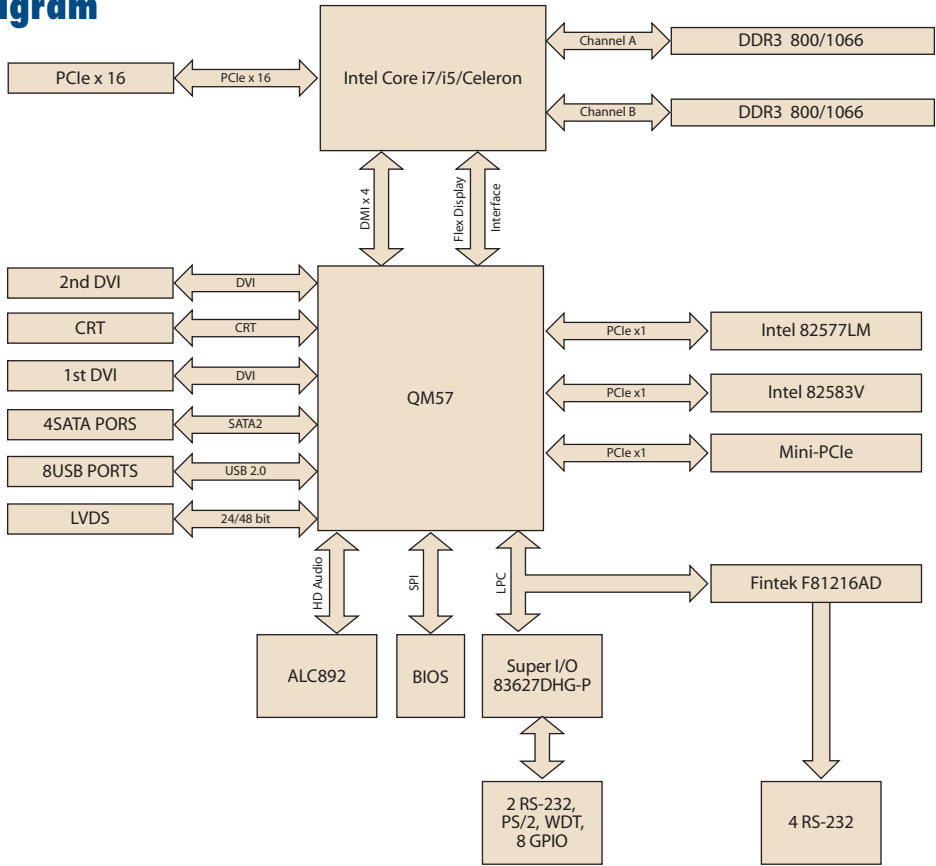
Utilities:  



Specifications

| | | | | |
|--------------------------|------------------------|---|--------------------|---------------|
| Processor System | CPU | Intel Core i7-620M | Intel Core i5-520M | Intel Celeron |
| | Max. Speed | 2.66 GHz | 2.4 GHz | 1.86 GHz |
| | DMI/FDI | DMI/FDI | | |
| | L2 Cache | 4 MB | 3 MB | 2 MB |
| | Chipset | Intel 5 series Chipset (QM57) | | |
| Expansion Slot | BIOS | AMI EFI 64 Mbit SPI | | |
| | PCI | - | | |
| | Mini-PCIe | 1 | | |
| Memory | PCIe x16 (Gen2) | 8 GB/s per direction, 1 slot | | |
| | Technology | DDR3 800/1066 MHz SDRAM | | |
| | Max. Capacity | 8 GB | | |
| | Socket | 2x 204 PIN DDR3 SO-DIMM (Non-ECC) | | |
| Graphics | Controller | Integrated Gfx Gen5.75, supports DirectX 10 and OpenGL 2.1 | | |
| | VRAM | 1GB maximum shared memory with 2GB and above system memory installed | | |
| | CRT | Yes, supports max. resolution 2048 x 1536 | | |
| | LVDS | Single channel 18/24-bit/Dual channel 36/48-bit LVDS, supports max resolution 1920 x 1200 | | |
| | 1st DVI | Yes, supports max. resolution 1920 x 1200 | | |
| | 2nd DVI | Yes, with internal pin header, supports max. resolution 1920 x 1200 | | |
| Ethernet | Dual Display | CRT+LVDS, CRT+DVI, LVDS+DVI | | |
| | Interface | 10/100/1000 Mbps | | |
| | Controller | GbE LAN1: Intel 82577LM, LAN2: Intel 82583V | | |
| SATA | Connector | RJ-45 x 2 | | |
| | Max Data Transfer Rate | 300 MB/s | | |
| Rear I/O | Channel | 4 | | |
| | CRT | 1 | | |
| | DVI | 1 | | |
| | Ethernet | 2 | | |
| | USB | 4 (USB 2.0 compliant) | | |
| | Audio | 3 (Mic-in, Line-out, Line-in) | | |
| | Serial | 2 (RS-232) | | |
| | PS/2 | 2 (1 x keyboard and 1 x mouse) | | |
| Internal Connector | USB | 4 (USB 2.0 compliant) | | |
| | LVDS/inverter | 1 | | |
| | 2nd DVI | 1 | | |
| | Serial | 4 (RS-232) | | |
| | IDE | - | | |
| | SATA | 4 | | |
| | Mini-PCIe | 1 | | |
| | Parallel | - | | |
| Watchdog Timer | IrDA | - | | |
| | GPIO | 8-bit | | |
| Power Requirements | Output | System reset | | |
| | Interval | Programmable 1 ~ 255 sec/min | | |
| | Power On | Intel Core i7-620M 2.66 GHz, 4 GB DDR3 1333 MHz SDRAM | | |
| Environment | 5 V | 3.3 V | 12 V | 5 Vsb -12 V |
| | 3.42 A | 1.1 A | 1.19 A | 0.5 A 0.07A |
| Physical Characteristics | Operating | Non-Operating | | |
| | Temperature | 0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution | | |
| Physical Characteristics | Dimensions | -20 ~ 70° C (-4 ~ 158° F) | | |
| | Dimensions | 170 mm x 170 mm (6.69" x 6.69") | | |

Block Diagram



Ordering Information

| Part Number | CRT | 2 DVI | GbE LAN | COM |
|------------------|-----|-------|---------|-----|
| AIMB-270G2-00A1E | Yes | Yes | 2 | 6 |

Optional Accessories

| Part Number | Description |
|-------------|------------------------------------|
| 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 |
| 1700008822 | DVI cable |

Packing List

| Part Number | Description | Quantity |
|----------------|--------------------------------------|----------|
| 1700003194 | SATA HDD cable | 2 |
| 1703150102 | SATA power cable | 2 |
| 1960051292N001 | CPU cooler | 1 |
| 1701400181 | 1-to-4 serial ports cable kit, 18 cm | 1 |
| 1960019193T100 | I/O port bracket | 1 |
| 20060270010 | Startup manual | 1 |
| 20660270000 | Driver CD | 1 |

Embedded OS/API

| OS/API | Part No. | Description |
|--------------|------------|--------------------------------------|
| Win XPE | 2070009655 | XPE WES2009 QM57 AIMB-270 V4.0 ENG |
| | 2070009656 | XPE WES2009 QM57 AIMB-270 V4.0 MUI24 |
| Software API | 205E270001 | SUSI 3.0 SW API for AIMB-270 XP |

I/O View



AIMB-270G2-00A1E