

AIMB-580

Intel® Core i7/i5/i3/Pentium mATX with
VGA/DVI, 4 COM, Dual LAN

NEW



CE FCC

Features

- Supports Intel Core i7/i5/i3/Pentium processor with Q57 chipset
- Four DIMM socket support up to 16 GB DDR3 800/1066/1333
- Supports dual display of VGA and DVI and dual GbE LAN
- Supports SATA RAID 0, 1, 5, 10, AMT 6.0, TPM 1.2
- Supports embedded software APIs and Utilities

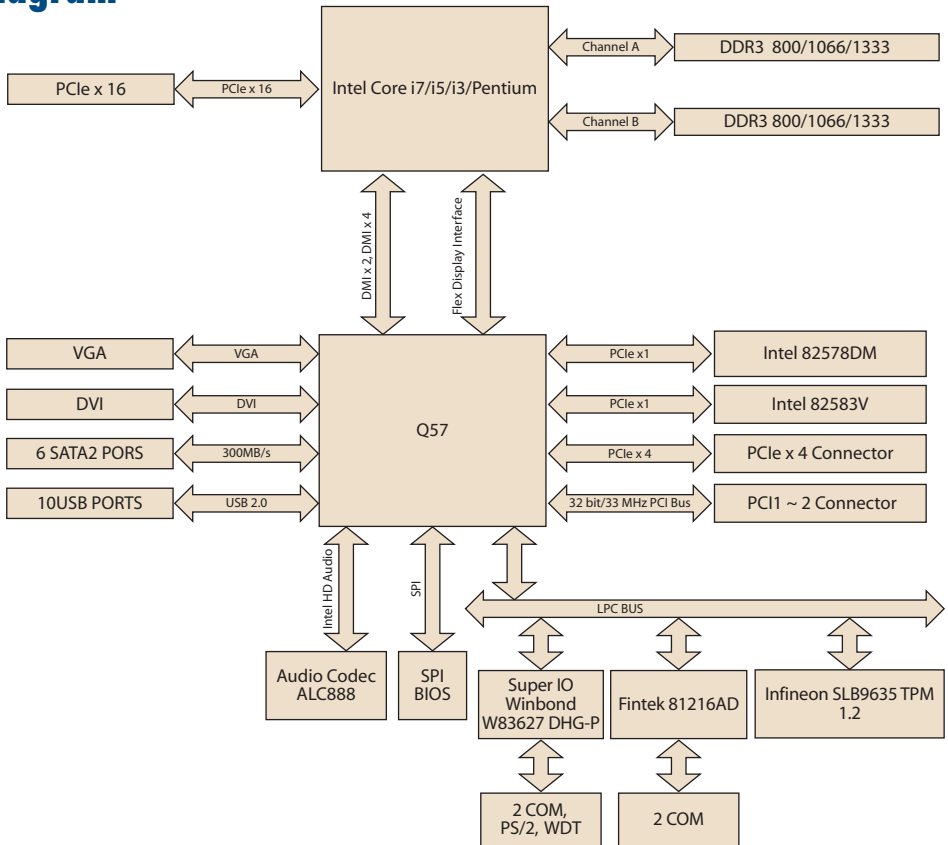


Note: eSOS need ODM BIOS by request

Specifications

| | | | | | | |
|--------------------------|------------------------|---|-------------|-------------|---------------------------|---------|
| Processor System | CPU | Core i7 | Core i5 700 | Core i5 600 | Core i3 | Pentium |
| | Core number | 4 | 4 | 2 | 2 | 2 |
| | Max. speed | 2.93 GHz | 2.66 GHz | 3.3 GHz | 3.06 GHz | 2.8 GHz |
| | Integrated Graphic | Only those Core i5 600, Core i3 and Pentium CPUs with Clarkdale core are embedded with integrated | | | | |
| | L2 Cache | 8 MB | 8 MB | 4 MB | 4 MB | 3 MB |
| | Chipset | Q57 | | | | |
| | BIOS | AMI 64 Mbit SPI | | | | |
| Expansion Slot | PCI | 32-bit/33 MHz, 2 slots | | | | |
| | PCIe x 4 | 1.0 GB/s per direction, 1 slot | | | | |
| | PCIe x16 (Gen2) | 8 GB/s per direction, 1 slot | | | | |
| Memory | Technology | Dual Channel DDR3 800/1066/1333 | | | | |
| | Max. Capacity | 16 GB | | | | |
| | Socket | 4 x 240-pin DIMM | | | | |
| Graphics | Controller | Intel GFX | | | | |
| | VRAM | 1 GB maximum shared memory with 2 GB and above system memory installed | | | | |
| Ethernet | Interface | 10/100/1000 Mbps | | | | |
| | Controller | GbE LAN1: Intel 82578DM, GbE LAN2: Intel 82583V | | | | |
| | Connector | RJ-45 x 2 | | | | |
| SATA | Max Data Transfer Rate | 300 MB/s | | | | |
| | Channel | 6 | | | | |
| Rear I/O | VGA | 1 | | | | |
| | DVI | 1 | | | | |
| | Ethernet | 2 | | | | |
| | USB | 4 (USB 2.0 compliant) | | | | |
| | Audio | 3 (Mic-in, Line-out) | | | | |
| | Serial | 2 (RS-232) | | | | |
| | PS/2 | 2 (1 x keyboard and 1 x mouse) | | | | |
| Internal Connector | USB | 6 (USB 2.0 compliant) | | | | |
| | Serial | 2 (1 of RS-232, 1 of RS-232/422/485 for support auto flow control) | | | | |
| | IDE | - | | | | |
| | SATA | 6 | | | | |
| | FDD | 1 | | | | |
| | Parallel | 1 | | | | |
| | IrDA | - | | | | |
| Watchdog Timer | Output | System reset | | | | |
| | Interval | Programmable 1 ~ 255 sec/min | | | | |
| Power Requirement | Power On | 5 V | 3.3 V | 12 V | 5 Vsb | -12 V |
| | | TBD | TBD | TBD | TBD | TBD |
| Environment | | Operating | | | Non-Operating | |
| | Temperature | 0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution | | | -20 ~ 70° C (-4 ~ 158° F) | |
| Physical Characteristics | Dimensions | 244 mm x 244 mm (9.6" x 9.6") | | | | |

Board Diagram



Ordering Information

| Part Number | Chipset | VGA | DVI | SW RAID | USB | COM | GbE LAN |
|------------------|---------|-----|-----|---------|-----|-----|---------|
| AIMB-580G2-00A1E | Q57 | Yes | Yes | Yes | 10 | 4 | 2 |

Riser Card

| Part Number | Description |
|------------------|---|
| AIMB-RP10P-01A1E | 1U riser card with 1 PCI expansion |
| AIMB-RP30P-03A1E | 2U riser card with 3 PCI expansion |
| AIMB-RP3PF-21A1E | 2U riser card with 1PCIe x 16 & 2PCI slot expansion |

Bracket View



Packing List

| Part Number | Description | Quantity |
|----------------|------------------|----------|
| 1700340640 | FDD cable | x 1 |
| 1700003194 | SATA HDD cable | x 2 |
| 1703150102 | SATA Power cable | x 2 |
| 1960019193T100 | I/O port bracket | x 1 |
| 2006058010 | Startup manual | x 1 |
| 2006058000 | Driver CD | x 1 |

Accessories

| Part Number | Description |
|----------------|---|
| 1700002204 | Dual port USB cable (27 cm) with bracket |
| 1960047373N001 | LGA1156 CPU cooler for 2U and wallmount chassis |