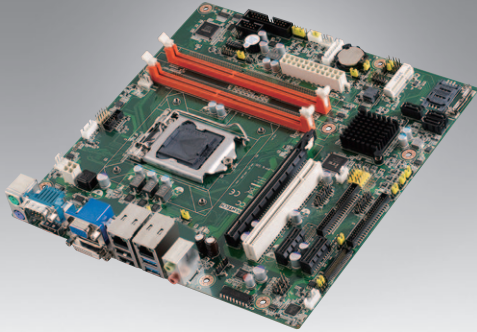


AIMB-503

Intel® Core™ i7/i5/i3 LGA1150 MicroATX
with CRT/DP/DVI/LVDS, 10 COM, 2 USB 3.0,
7 USB 2.0, Dual LAN

NEW



Features

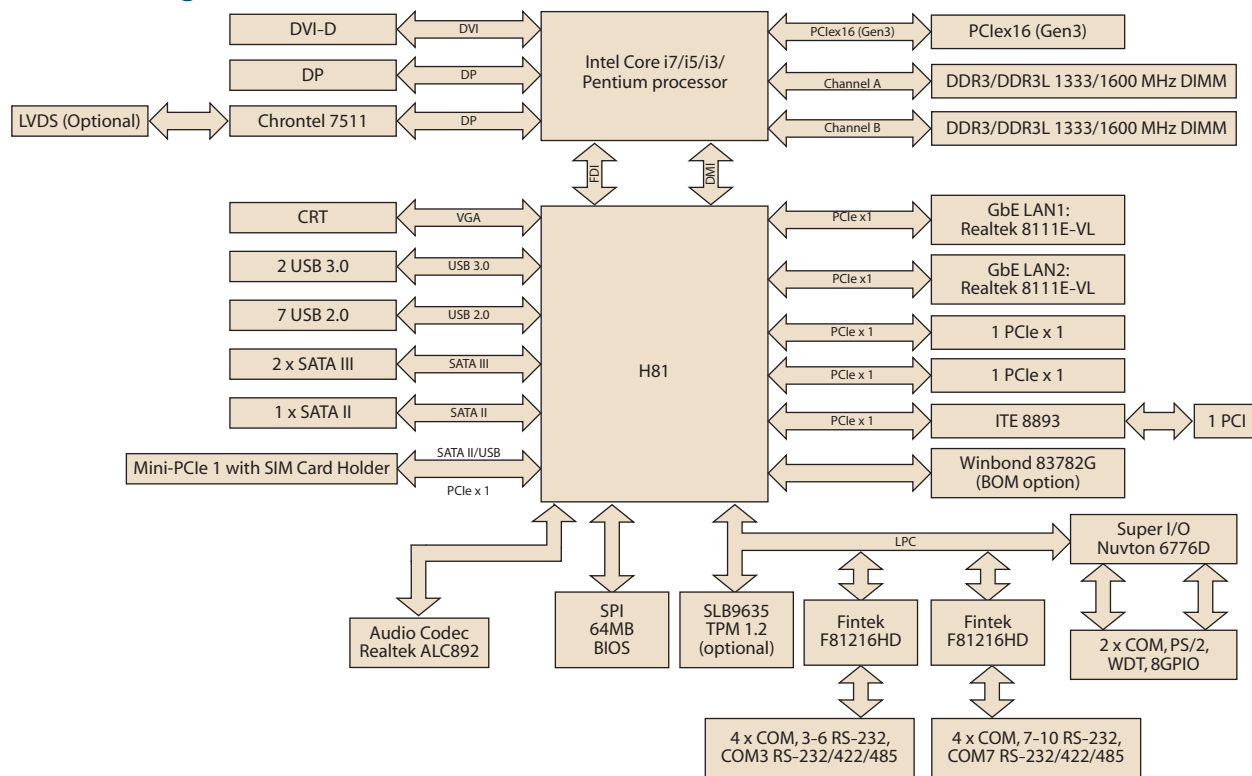
- Supports Intel® Core™ i7/i5/i3 processor with H81 chipset
- Two DIMM sockets support up to 16 GB DDR3/DDR3L 1333/1600 MHz SDRAM
- Supports Dual display of VGA, DP, DVI, LVDS and two GbE LAN
- Supports 10 COM, 2 USB 3.0, 7 USB 2.0, TPM 1.2 (optional)
- Supports SUSIAccess, McAfee, Acronis and Embedded Software APIs



Specifications

| | | | | | | | | | | |
|--------------------------|------------------------|--|-----------|----------|-----------|---------|----------------------------|-----------------|---------------|--|
| Processor System | CPU | i7-4770S | i7-4770TE | i5-4570S | i5-4570TE | i3-4330 | i3-4330TE | Pentium G3320TE | Pentium G3420 | |
| | Core Number | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | |
| | Max. Speed | 3.1 GHz | 2.3 GHz | 2.9 GHz | 2.7 GHz | 3.5 GHz | 2.4 GHz | 2.3 GHz | 3.2GHz | |
| | L3 Cache | 8M | 8M | 6M | 4M | 4M | 4M | 3M | 3M | |
| | TDP (W) | 65W | 45W | 65W | 35W | 54W | 35W | 35W | 54W | |
| | Chipset | H81 | | | | | | | | |
| Expansion Slot | BIOS | AMI EFI 64 Mbit SPI | | | | | | | | |
| | PCI | 32-bit/33 MHz, 1 slot | | | | | | | | |
| | PCIe x1 (Gen2) | 500 MB/s per direction, 2 slot | | | | | | | | |
| | PCIe x16 (Gen3) | 16 GB/s per direction, 1 slot | | | | | | | | |
| | Full-size Mini-PCIe | 1/0, F/S support mSATA with SIM card holder | | | | | | | | |
| Memory | Technology | Dual Channel DDR3/DDR3L @1.5V 1333/1600 MHz SDRAM | | | | | | | | |
| | Max. Capacity | 16 GB/8 GB per DIMM | | | | | | | | |
| | Socket | 2 x 240-pin DIMM (Non-ECC) | | | | | | | | |
| Graphics | Controller | Intel HD Graphics | | | | | | | | |
| | LVDS | Supports dual channel 48 bit and up to 1920 x 1200 | | | | | | | | |
| | CRT | Yes, supports max. resolution 1920 x 1200 | | | | | | | | |
| | DP | Up to 3840 x 2160 resolution | | | | | | | | |
| | DVI | Up to 1920 x 1200 @ 60Hz refresh rate | | | | | | | | |
| Ethernet | Dual Display | DP+DVI, VGA+DP, VGA+DVI | | | | | | | | |
| | Interface | 10/100/1000 Mbps | | | | | | | | |
| | Controller | GbE LAN1:Realtek RTL8111E GbE LAN2:Realtek RTL8111E | | | | | | | | |
| SATA | Connector | RJ-45 x 2 | | | | | | | | |
| | Max Data Transfer Rate | 600 / 300 MB/s (SATA 3.0 / SATA 2.0) | | | | | | | | |
| Rear I/O | Channel | 2 / 1 | | | | | | | | |
| | CRT | 1 | | | | | | | | |
| | DVI-D | 1 | | | | | | | | |
| | Ethernet | 2 / 1 | | | | | | | | |
| | USB | 4 (G2/L: USB 3.0 x 2, USB 2.0 x 2) | | | | | | | | |
| | Display port | 1 (G2) | | | | | | | | |
| | Audio | 2 (Mic-In, Line-out) | | | | | | | | |
| | Serial | 1 (RS-232, COM1 support 5V/12V) | | | | | | | | |
| Internal Connector | PS/2 | 2 (1 x keyboard and 1 x mouse) | | | | | | | | |
| | USB | 5 (USB 2.0) | | | | | | | | |
| | Serial | 9 (7 x RS-232, 2 x RS-232/422/485; COM 3 and COM 7 support RS-232/422/485 auto flow control; COM 2 support 5V/12V by jumper selection) | | | | | | | | |
| | IDE | - | | | | | | | | |
| | SATA | 2 x 600 MB/s (SATA 3.0), 1 x 300 MB/s (SATA 2.0) | | | | | | | | |
| | LVDS & Inverter | 1 | | | | | | | | |
| | DVI | - | | | | | | | | |
| | IrDA | - | | | | | | | | |
| Watchdog Timer | GPIO | 8-bit GPIO | | | | | | | | |
| | LPT | 1 (G2) | | | | | | | | |
| | Output Interval | System reset Programmable 1 ~ 255 sec/min | | | | | | | | |
| Power Requirements | Power On | Intel® Core™ i7-4770S CPU @ 3.10GHz + DDR3 8G X2 1600 + SATA H.D.D | | | | | | | | |
| | | 5V | +3.3V | 12V | -12V | 5VSB | | | | |
| Environment | | 1.41A | 1.14A | 4.8A | 0.13A | 0.42A | | | | |
| | Operating | | | | | | Non-Operating | | | |
| Physical Characteristics | Temperature | 0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution | | | | | -40 ~ 85° C (-40 ~ 185° F) | | | |
| | Dimensions | 244 mm x 244 mm (9.6" x 9.6") | | | | | | | | |

Block Diagram



Ordering Information

| Part Number | PCH | Memory | VGA | DVI | LVDS | USB 3.0/2.0 | COM | SIM Card Holder | LAN | PCIe x 16 | PCIe x 4 | PCIe x 1 | PCI slot | AMP |
|------------------|-----|---------|-----|-----|--------------|-------------|-----|-----------------|-----|-----------|----------|----------|----------|-----|
| AIMB-503G2-00A1E | H81 | Non ECC | 1 | 1 | (1) Optional | 2/7 | 10 | Yes | 2 | 1 | - | 2 | 1 | 1 |
| AIMB-503L-00A1E | H81 | Non ECC | 1 | 1 | - | 2/7 | 2 | - | 1 | 1 | - | 2 | - | (1) |

*) BOM options available on MP version.

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 1 PCIe x16 and 2 PCI expansion |
| AIMB-RF10F-01A1E | 1U riser card with 1 PCIe x16 expansion |

Packing List

| Part Number | Description | Quantity |
|---|---|----------|
| 1700003194 | Serial ATA HDD data cable | 2 |
| 17AD14GS1400013V04 | 4 in 1 COM cable 500mm (IDE 40-pin 2.0mm) | 2 |
| 17AD14GS0000083V04 | DB 9P/M to IDC 10P cable 600mm | 1 |
| 1960056089T010(G2) 19Z0000568T000(L) | I/O port bracket | 1 |
| 2006050300 | Startup manual | 1 |
| 2066050300 | Driver CD | 1 |

Optional Accessories

| Part Number | Description |
|----------------|---|
| 1700002204 | USB cable with dual ports, 27 cm |
| 1960053207N001 | LGA1150 CPU cooler for CPU TDP 65W, 92.9 (W) x 92.9 (L) x 46 (H) mm |
| 1960060732N001 | LGA1150 CPU cooler for CPU TDP 45W, 80 (W) x 80 (L) x 32.2 (H) mm |
| 1700000447 | 1-to-4 serial ports cable kit, 45cm |
| 1701400181 | 1-to-4 serial ports cable kit, 18cm |

Note: Purchasing AIMB-503's proprietary CPU cooler from Advantech is a must; other brands of CPU coolers are NOT compatible with AIMB-503.

Embedded OS/API

| OS/API | Part No | Description |
|--------|------------|-------------------------------------|
| WES7 | 2070012753 | Image WES7E AIMB-503 x32 V5.1.6 ENG |

I/O View



AIMB-503G2-00A1E



AIMB-503L-00A1E



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- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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