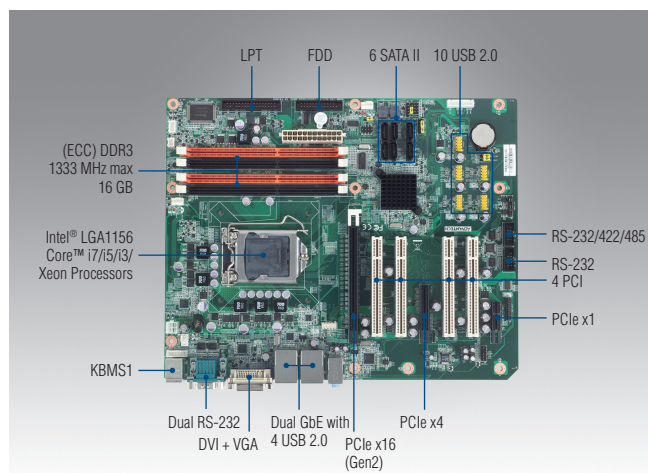


# AIMB-780

**LGA1156 Intel® Core™ i7/i5/i3/Pentium®/Xeon®  
ATX with DVI/VGA, 4 COM, Dual LAN, DDR3**



## Features

- Supports Intel® Core™ i7/i5/i3/Pentium®/Xeon® processor with Q57/3450 chipset
- Four DIMM sockets support up to 16 GB DDR3 800/1066/1333
- Supports dual display VGA and DVI and dual GbE LAN
- Supports SATA RAID 0, 1, 5, 10, AMT6.0, TPM1.2 (optional)
- Supports embedded software APIs and utilities

### Software APIs:



### Utilities:



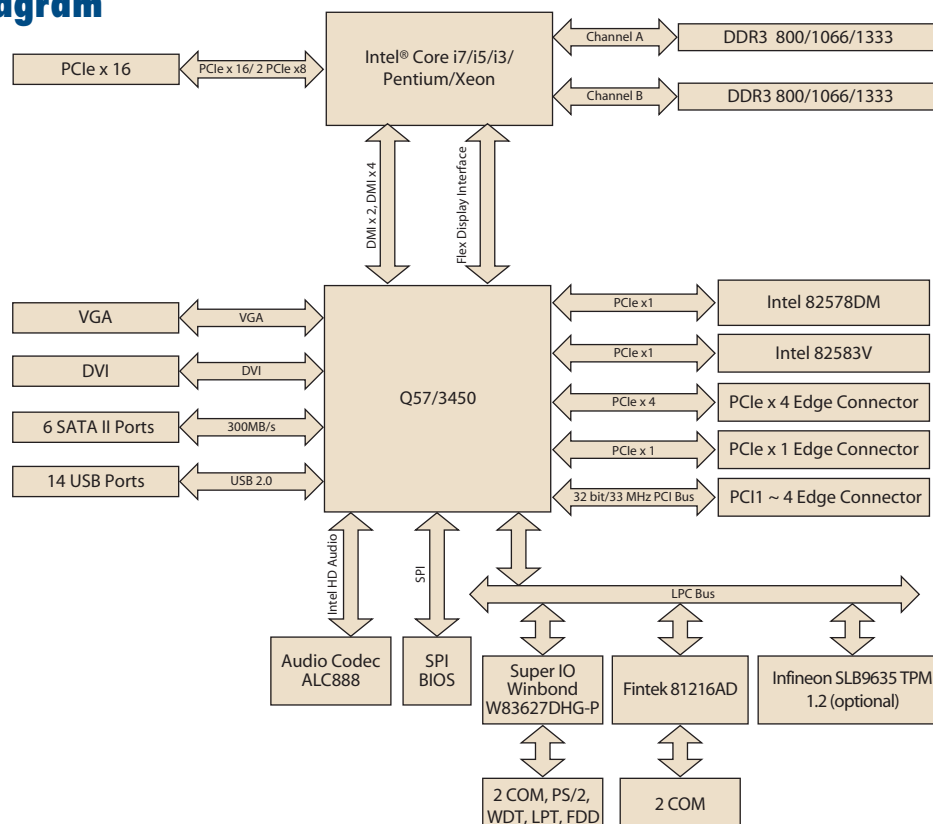
Note: eSOS needs ODM BIOS available by request



## Specifications

|                          |                        |                                                                                                                           |             |             |                            |             |               |
|--------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------------------|-------------|---------------|
| Processor System         | CPU                    | Xeon 34xx                                                                                                                 | Core i7 8xx | Core i5 7xx | Core i5 6xx                | Core i3 5xx | Pentium G69xx |
|                          | Core Number            | 4                                                                                                                         | 4           | 4           | 2                          | 2           | 2             |
|                          | Speed                  | 2.93 GHz                                                                                                                  | 2.93 GHz    | 2.66 GHz    | 3.3 GHz                    | 3.06 GHz    | 2.8 GHz       |
|                          | Integrated Graphics    | -                                                                                                                         | -           | -           | Yes                        | Yes         | Yes           |
|                          | L3 Cache               | 8 MB                                                                                                                      | 8 MB        | 8 MB        | 4 MB                       | 4 MB        | 3 MB          |
|                          | Support Model          | WG2                                                                                                                       | QG2         | QG2         | WG2/QG2                    | WG2/QG2     | WG2/QG2       |
|                          | Socket                 | LGA1156                                                                                                                   |             |             |                            |             |               |
|                          | Chipset                | Q57 for QG2 version; 3450 for WG2 version (WG2 only supports Xeon 34xx, Core i5 6xx, Core i3 5xx, and Pentium G69XX CPUs) |             |             |                            |             |               |
| Expansion Slot           | BIOS                   | AMI 64 Mbit SPI                                                                                                           |             |             |                            |             |               |
|                          | PCI                    | 32-bit/33 MHz, 4 slots                                                                                                    |             |             |                            |             |               |
|                          | PCIe x1                | 250 MB/s per direction, 1 slot                                                                                            |             |             |                            |             |               |
|                          | PCIe x4                | 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 (Only WG2 SKU supports ECC memory)                                                        |             |             |                            |             |               |
|                          | Max. Capacity          | 16 GB                                                                                                                     |             |             |                            |             |               |
|                          | Socket                 | 4 x 240-pin DIMM                                                                                                          |             |             |                            |             |               |
| Graphics                 | Controller             | Intel HD Graphics (Only the Core i5 6xx, Core i3 and Pentium CPUs with dual core are embedded with integrated graphics)   |             |             |                            |             |               |
|                          | 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                  | 2 (Mic-in, Line-out)                                                                                                      |             |             |                            |             |               |
|                          | Serial                 | 2 (RS-232)                                                                                                                |             |             |                            |             |               |
|                          | PS/2                   | 2 (1 x keyboard and 1 x mouse)                                                                                            |             |             |                            |             |               |
| Internal Connectors      | USB                    | 10 (USB 2.0 compliant)                                                                                                    |             |             |                            |             |               |
|                          | Serial                 | 2 (1 x RS-232, 1 x RS-232/422/485 for auto-flow control support)                                                          |             |             |                            |             |               |
|                          | SATA                   | 6                                                                                                                         |             |             |                            |             |               |
|                          | FDD                    | 1                                                                                                                         |             |             |                            |             |               |
|                          | Parallel               | 1                                                                                                                         |             |             |                            |             |               |
|                          | IrDA                   | 1                                                                                                                         |             |             |                            |             |               |
| Watchdog Timer           | Output                 | System reset                                                                                                              |             |             |                            |             |               |
|                          | Interval               | Programmable 1 ~ 255 sec                                                                                                  |             |             |                            |             |               |
| Power Requirement        | Power On               | Intel Core i5-660 processor; DDR3 2 GB x 4                                                                                |             |             |                            |             |               |
|                          |                        | 5 V                                                                                                                       | 3.3 V       | 12 V        | 5 Vsb                      | -12 V       |               |
|                          |                        | 4.23 A                                                                                                                    | 0.96 A      | 3.93 A      | 1.18 A                     | 0.01A       |               |
| Environment              |                        | Operating                                                                                                                 |             |             | Non-Operating              |             |               |
|                          | Temperature            | 0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution                                                         |             |             | -40 ~ 85° C (-40 ~ 185° F) |             |               |
| Physical Characteristics | Dimensions             | 304.8 x 244 mm (12" x 9.6")                                                                                               |             |             |                            |             |               |

## Block Diagram



## Ordering Information

| Part Number       | Chipset | Memory      | USB | COM | GbE LAN | TPM      |
|-------------------|---------|-------------|-----|-----|---------|----------|
| AIMB-780QG2-00A1E | Q57     | Non-ECC     | 14  | 4   | 2       | Optional |
| AIMB-780WG2-00A1E | 3450    | ECC/Non-ECC | 14  | 4   | 2       | Optional |

## 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 & 2 PCI slot expansion                   |
| AIMB-RP3P8-12A1E | 2U riser card with 2 PCIe x8 & 1 PCI slot expansion (only for WG2 Sku) |

Note: Purchasing 1950014302N001 is a must when installing AIMB-RP3P8-12A1E with ACP-2010MB/2320MB chassis.

## Bracket View



AIMB-780QG2-00A1E  
AIMB-780WG2-00A1E

## Packing List

| Part Number    | Description        | Quantity |
|----------------|--------------------|----------|
| 1700003194     | SATA HDD cable     | x 2      |
| 1703150102     | SATA power cable   | x 2      |
| 1701092300     | COM port cable kit | x 1      |
| 1960019193T000 | I/O port bracket   | x 1      |
| 2002078010     | Startup manual     | x 1      |
| 2062078000     | Driver CD          | x 1      |

## Optional Accessories

| Part Number    | Description                                     |
|----------------|-------------------------------------------------|
| 1700002204     | Dual port USB cable (27 cm) with bracket        |
| 1960047669N001 | LGA1156 CPU cooler for 4U and wallmount chassis |
| 1960047831N001 | LGA1156 CPU cooler for 2U and wallmount chassis |
| 1960049408N001 | LGA1156 CPU cooler for 1U and wallmount chassis |
| 1700020294-01  | Printer port cable kit                          |
| 1960048353T000 | I/O port bracket for 1U chassis                 |

Note 1: Purchasing AIMB-780's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with AIMB-780.

Note 2: 1960049408N001 is design to be used with Advantech 1U chassis, user needs to conduct thermal test before using this cooler with other brand chassis.

# Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



## AutoCont IPC a.s.

Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

 Uhlířská 1064/3, 710 00 Ostrava, Česká republika

 obchod@autocont-ipc.cz

 +420 552 301 002

 [www.autocont-ipc.cz](http://www.autocont-ipc.cz)



### PRŮMYSLOVÉ POČÍTAČE

*fanless embedded PC, do racku, ...*



### POČÍTAČE S DISPLEJEM

*panelové PC, terminály, do vozidel, ...*



### AUTOMATIZACE A SBĚR DAT

*převodníky, karty, moduly, switche, ...*



### PERIFERIE A KOMPONENTY

*monitory, klávesnice, desky, skříně, ...*



### NOTEBOOKY A TABLETY

*odolné, windows, android, IP65, ...*



### INFORMAČNÍ KIOSKY

*interiérové, venkovní, ...*



### MEDICÍNSKÁ TECHNIKA

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### SOFTWAREVÁ ŘEŠENÍ

*pro výrobu, zaměstnance, kiosky, ...*



### PŘEJÍT DO E-SHOPU

[eshop.autocont-ipc.cz](http://eshop.autocont-ipc.cz)



### DOPRAVA ZDARMA

Doprava zdarma v ČR a SR při  
objednávce nad 10 000 Kč bez DPH  
nebo nad 400 EUR.



### PRODLOUŽENÁ ZÁRUKA

Záruka 2 roky na vyráběné počítače  
s možností jejího prodloužení  
až na 5 let.



### ODMĚNA ZA VĚRNOST

Pravidelní zákazníci u nás nakupují  
za nižší ceny. Výše slevy se odvíjí  
od realizovaného obrátu.



### SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme  
rozšířenou podporu a servis s garancí  
výměny zařízení do 48 hodin.