

AIMB-262 (Intel® LGA775 Core 2 Duo Mini ITX Motherboard with DDR2/LAN/4COM/PCIe x16)

Startup Manual

Packing List

Before you begin installing your card, please make sure that the following items have been shipped:

1. AIMB-262 Intel® LGA775 Core 2 Duo Mini ITX Motherboard
2. SATA HDD cable x 2
3. SATA Power cable x 2
4. Serial port cable x 2
5. I/O port bracket x 1
6. Startup manual x 1
7. Driver CD x 1

Optional Cable

1. Parallel cable with bracket (P/N: 1700008809)
2. Dual port USB cable (27 cm) with bracket (P/N: 1700002204)

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

Note: Acrobat Reader is required to view any PDF file.

Acrobat Reader can be downloaded at:

www.adobe.com/Prodindex/acrobat/readstep.html
(Acrobat is a trademark of Adobe).

For more information on this and other Advantech products, please visit our website at:

<http://www.advantech.com>

<http://www.advantech.com/eplatform>

For technical support and service, please visit our support website at:

<http://www.advantech.com/support>

This manual is for the AIMB-262 series Rev. A1

Part No. 2006026210

1st Edition,

Print in Taiwan

August 2008

Specifications

Standard SBC functions

- **CPU:** Intel® LGA775 Core 2 Duo, Pentium® due-core, Pentium® 4, Celeron® D
- **FSB:** 533/ 800 MHz
- **BIOS:** Award 16 Mbit SPI
- **Chipset:** Intel 945GC with ICH7
- **System Memory:** Up to 2 GB; 200-pin SODIMM x 2, Supports dual channel DDR 533/667 SDRAM
- **SATA:** Two onboard serial ATA connectors with a data transmission rate of up to 300 MB/s
- **Serial ports:** Four serial ports: Three of RS-232; One of RS-232/422/485
- **Parallel port:** One parallel port, supports SPP/EPP/ECP mode (with pin header)
- **Keyboard/mouse connector:** Supports one standard PS/2 keyboard, one standard PS/2 mouse
- **Watchdog timer:** 255 level timer intervals
- **USB 2.0:** Supports up to six USB 2.0 ports, four external ports and two onboard pin headers

Graphic Interface

- **Controller:** Chipset integrated VGA controller
- **Display memory:** Dynamically shared system memory up to 224 MB
- **CRT:** Up to 2048x1536 resolution, 400MHz RAMDAC

Ethernet Interface

- **Single 10/100/1000Base-T GbE LAN** Realtek RTL8111C

Mechanical and Environmental

- **Dimensions (L x W):** 170 x 170 mm
- **Power supply voltage:** +5 V, +12 V, +3.3 V, +5 Vsb, -12 V
- **Power requirements:**
 - Intel LGA775 Core 2 Duo 1.8Mhz FSB800Mhz, 2GB DDR2
 - +5 V @ 4 A, +3.3 V @ 1.02 A, +12 V @ 2.35 A, 5 Vsb @ 0.26, -12 V @ 0.12 A Measure the maximum current value which system under maximum load (CPU: Top speed, RAM & Graphic: Full loading)
- **Operating temperature:** 0 ~ 60° C (depending on CPU)
- **Weight:** 0.365 kg (weight of board)

Jumpers and Connectors

The board has a number of connectors and jumpers that help to configure the system to suit your application requirements. The tables below list the function of each of the connectors and jumpers.

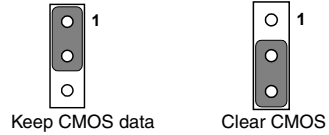
Label	Function
JFP2_1	Reset connector HDD LED connector ATX soft power switch (PS_ON) Power/Sleep LED
CMOS1	CMOS clear
PSON1	AT/ATX mode selector
LPT1	Parallel port
USB56	USB port 5, 6 (on board)
VGA1	VGA connector
COM1/2	Serial port: COM1/2 (rear panel port)
JSETCOM1	Serial port configuration: RS232/RS422/RS485
KBMS1	PS/2 keyboard and Mouse connector
CPU_FAN1	CPU fan connector
CHA_FAN1	System fan connector
COM3	Serial port connector
COM4	Serial port connector
LAN1_USB12	LAN1 / USB port 1,2
USB34	USB port 3,4
AUDIO1	Line IN, Line Out, Mic IN (Motherboard) connector
EATXPWR1	ATX power connector
TPM_SLOT	TPM2.0 Module connector
SPI_CN1	SPI flash card pin header
SATA1	Serial ATA0 connectors
SATA2	Serial ATA1 connectors

CMOS1: Clear CMOS

Pins	Result
1-2*	Keep CMOS data*
2-3	Clear CMOS data

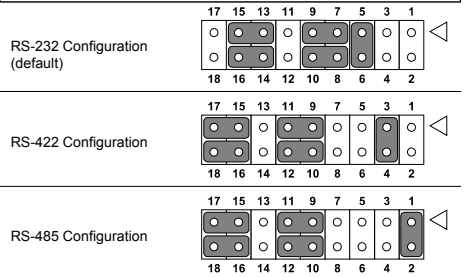
* Default

Jumpers and Connectors



JSETCOM1: COM1 RS232/422/485 Mode Selector

Users can use JSETCOM1 to select among RS 232/422/485 modes for COM1. The default setting is RS 232.



JPSON1: ATX, AT Mode Selector

Closed Pins Result

1-2	AT Mode
2-3*	ATX Mode*

* Default



Declaration of Conformity

The device complies with the requirements in Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference;
2. This device must accept any interference received, including interference that may cause undesired operation.

Software Installation

The CD disc contains a driver installer program that will lead you through the installation of various device drivers needed to take full advantage of your motherboard.

Software Installation

The computer is supplied with a battery-powered Real-time Clock circuit. There is a danger of explosion if the battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to manufacturer's instructions.

Board Diagram

