

AIMB-251

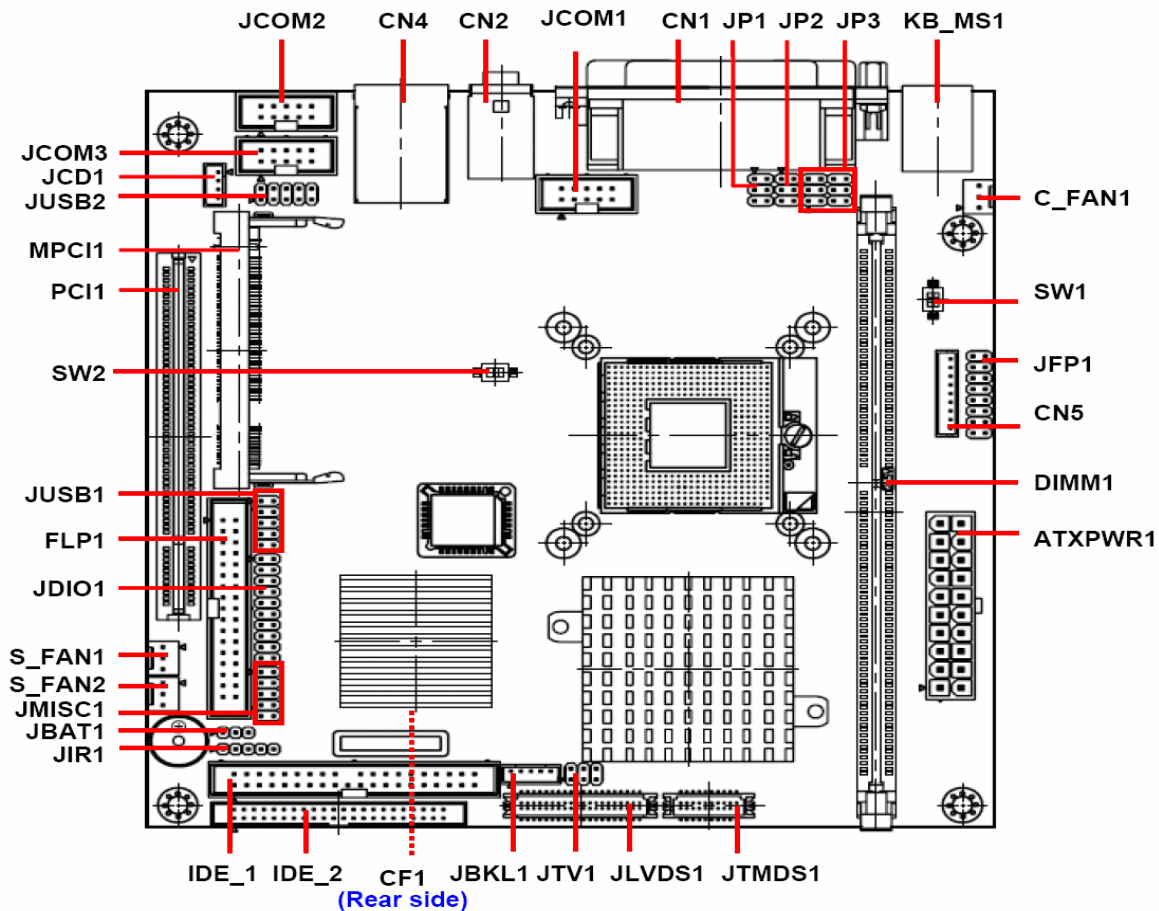
Packing List

Before you begin installing your single board, please make sure that the following materials have been shipped:






- 1 x AIMB-251 Mini ITX Motherboard
- 1 x CD-ROM contains the followings:
 - User's Manual (this manual in PDF file)
 - Drivers
- 1 x IDE HDD cable (40-pin, pitch 2.54mm)
- 1 x IDE HDD cable (44-pin, pitch 2.0mm)
- 1 x FDD cable (34-pin, pitch 2.54mm)
- 3 x Serial port cable with 1 DB9P(M)
- 1 x I/O bracket
- 1 x Startup manual
- 1 x Celeron® M CPU cooler
- 1 x Warranty Card

Startup Manual

Product Overview



System Specifications

System 	
Model	AIMB-251
CPU	Intel® ULV Celeron 600 MHz 512K L2 cache
FSB	400 MHz
BIOS	Award 512 KB Flash BIOS
System Chipset	Intel® 852GM GMCH/ ICH4
I/O Chip	Winbond W83627HF-AW
System Memory	One 184-pin DIMM socket supports up to 1 GB DDR 266/333 SDRAM
SSD	One CompactFlash Type I/II socket
Watchdog Timer	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
H/W Status Monitor	Monitoring system temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats.
Expansion	One PCI slot (PCI Rev. 2.2 compliant), one Mini PCI slot
I/O 	
MIO	4 x EIDE (Ultra DMA 100), 2 x FDD , 1 x LPT, 1 x RS-232, 1x RS-232/422/485, 1x K/B, 1 x Mouse
IrDA	115k bps, IrDA 1.0 compliant
USB	6 USB 2.0 ports
DIO	16-bit General Purpose I/O for DI and DO
Display 	
Chipset	Intel® 852GM GMCH integrated Extreme Graphics 2 controller
Display Memory	Intel® DVMT 2.1 supports up to 64 MB video memory
Resolution	CRT mode: 1600 x 1200 @ 32 bpp (85 Hz), LCD mode: 1600 x 1200 @ 32 bpp
Dual Display	CRT + LVDS, or DVI/TV-out + LVDS or CRT + DVI
LVDS	Dual-channel 18/24-bit LVDS
DVI	Chrontel CH7009A DVI transmitter up to 135M pixels/second
TV-Out	Chrontel CH7009A TV encoder supports both NTSC/PAL Supports both S-Video and composite video
Audio 	
Chipset	Intel® ICH4
AC97 Codec	VIA VT1616 supports 5.1 CH Audio
Audio Interface	Mic in, Line in, CD Audio in, Line out
Ethernet 	
LAN1	Realtek RTL8110S Gigabit LAN

Jumpers and Connectors

Jumpers

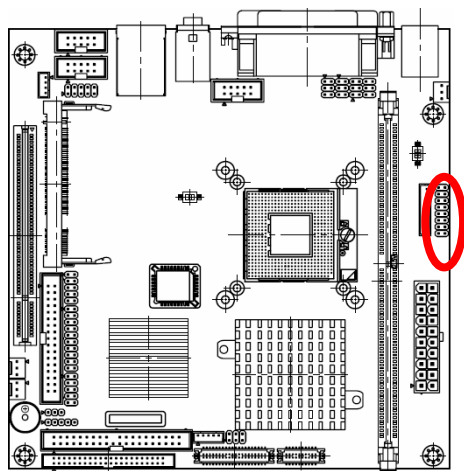
Label	Function
JBAT1	Clear CMOS
JP1	COM1 pin 9 signal select
JP2, JP3	COM1 RS-232/422/485 select (optional)
SW1	4/5/8-wire touch screen select
SW2	Reserved

Connectors

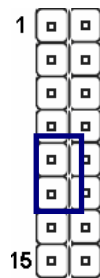
Label	Function
ATXPWR1	ATX Power connector
C_FAN1	CPU fan connector
CF1	CF card connector
CN1	Parallel port connector Serial port 1 connector VGA connector
CN2	Audio connector
CN4	RJ-45 Ethernet / USB 0 & 1 connector
CN5	4/5/8-wire touch screen connector (optional)
DIMM1	184-pin DDR SDRAM DIMM socket
FLP1	Floppy connector
IDE_1	Primary IDE connector
IDE_2	Secondary IDE connector
JBKL1	LCD inverter connector
JCD1	CD-ROM audio input connector
JCOM1	Serial port 2 connector
JCOM2	Serial port 3 connector
JCOM3	Serial port 4 connector
JDIO1	Digital input/output connector
JFP1	Front panel connector
JIR1	IrDA connector
JLVDS1	LVDS connector
JMISC1	Miscellaneous setting connector

JTMDS1	TMDS connector
JTV1	TV out connector
JUSB1	USB connector 2 & 3
JUSB2	USB connector 4 & 5
KB_MS1	PS/2 Keyboard & mouse connector
MPCI1	Mini PCI slot
PCI1	PCI slot
S_FAN1,S_FAN2	System fan connector 1 & 2

How to connect power button



Signal	PIN	PIN	Signal
RESET	1	2	SYS_LED+
GND	3	4	SYS_LED-
HDD_LED+	5	6	PWR_LED+
HDD_LED-	7	8	PWR_LED-
VCCSB	9	10	SUS_LED+
PWR_BUT	11	12	SUS_LED-
SUS_BUT	13	14	SPK+
GND	15	16	SPK-



PIN No.	Description
1, 3	Reset SW
2, 4	System LED
5, 7	HDD LED
6, 8	Power-On LED
9, 11	Power SW
10, 12	Suspend LED
13, 15	Suspend SW
14, 16	Speaker