

AIMB-330F Socket 370 SBC For Multimedia Applications Startup Manual

Packing List

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

- 1 AIMB-330 all-in-one single board computer
- 1 2-port serial cable p/n: 1700000445
- 1 UDMA/100 IDE flat cable p/n: 1701400452
- 1 4-port serial cable (AIMB-330F only) p/n: 1700000447
- 1 startup manual
- CD-ROM or disks for utility, drivers, and manual (in PDF format)

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

Note 1: For detailed contents of the AIMB-330, please refer to the enclosed CD-ROM or disk (in PDF format).

Note 2: Acrobat Reader is required to view any PDF file. Acrobat Reader can be downloaded at: www.adobe.com/Prodindex/acrobat/read-step.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/epc>

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

<http://service.advantech.com.tw/eservice/>

This manual is for the AIMB-330F series Rev. A1.

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Caution: Make sure system power is unplugged before installing/uninstalling any peripherals

Specifications

Standard SBC Functions

- **CPU:** Socket 370 for Intel® Pentium® III Processor/ Celeron, VIA C3 CPU > 750MHz
- **BIOS:** Award 256 KB Flash memory
- **Chipset:** VIA CLE266
- **System memory:** DDR DIMM x 2. Max. 2G
- **FDD interface:** Supports up to one FDD (optional)
- **Serial ports:** Two/Six serial RS-232 ports, COM1, 3, 4, 5, 6: RS-232, COM2: RS-232/422/485, COM3-6 share

Specifications (Continued)

- **IRQ.** It will depend on the OS support to have a share IRQ capability.
- **Parallel port:** Two parallel ports, supports SPP/EPP/ECP mode
- **Infrared port:** Shared with COM2. Transfer rates up to 115 Kbps
- **Keyboard/mouse connector:** Supports standard PC/AT keyboard and a PS/2 mouse
- **Power management:** Supports power saving modes including Normal/Standby/Suspend modes. APM 1.1 compliant
- **Watchdog timer:** 63 level timer intervals
- **USB:** Six Universal Serial Bus ports (includes 1 Embedded USB)

Solid State Disk

- Supports one 50-pin socket for CompactFlash™ card

VGA/LCD Interface

- **Chipset:** VIA CLE 266
- **Interface:** Intel Direct Memor Execution Mode to use system memory
- **Dual display combination:**
 - CRT+ 24-bit LCD panel
 - CRT+ LVDS panel
 - DVI + 24 bit LCD panel
 - DVI + LVDS panel
- **Display mode:**
 - Maximum 3D Resolution Supported, LCD panel: 1600x1200. CRT 1400x1050, DVI 1280x1024

Ethernet Interface

- **Chipset:** Realtek 8139DL
- **Ethernet interface:** PCI 10/100 Mbps Ethernet. IEEE 802.3 U protocol compatible
- **Connection:** On-board RJ-45 connector
- **Built-in boot ROM** (Optional)

Audio Function

- **Chipset:** Realtek ALC202
- **Audio controller:** AC97 version 2.0 compliant interface
- **Audio interface:** Microphone in, line in, CD audio in, line out, speaker L and Speaker R

Mechanical and Environmental

- **Dimensions (L x W):** 244x244 mm (9.6" x 9.6")
- **Power supply voltage:** +5 V ±5%, +12 V ±5%, -12 V ±5%
- **Power requirements:** +12V(CPU)@0.33A, +5V@6.15mA, +3.3V@2.6A (Pentium III 1.26G, DDR333 512+256M)
- **Operating temperature:** 0 ~ 60° C
- **Weight:** 0.8 kg (weight of total package)

Jumpers and Connectors

The board has a number of jumpers that allow you to configure your system to suit your application. The table below lists the function of each of the jumpers and connectors.

Jumpers

JP1 CMOS Power
JP3 COM1~COM6 pin9 voltage output select
JP4 COM2 RS232/422/485 and COM1~6 Ring signal select
JP5 Panel Voltage Selection

Connectors

1. CN1	VGA Connector (D-Sub 15Pin)
2. CN2	COM-1 connector (D-Sub 9-Pin)
4. CN4	Audio connector
5. CN5	Print connector (D-Sub 25-pin)
6. CN6	KB/MS connector (Mini-DIN)
7. CN7	USB connector
8. CN8	TTL LCD 40-Pin Hirose
9. CN9	LAN and USB connector
10. CN10	Internal speaker connector
11. CN11	CD-Input connector
12. CN12	Watch Dog Program
13. CN13	24-bits LVDS LCD 40-Pin HIROSE connector
14. CN14	12-bits LVDS LCD 24-Pin HIROSE Connector
15. CN15	Reserved for Watch-Dog programing
16. CN16	Embedded USB
17. CN17	Inverter Power Connector
18. CN18	ATX Power connector
19. CN19	DIO connector
20. CN20	2nd IDE connector
21. CN21	IrDA Connector
22. CN22	Primary IDE connector
23. CN23	Floppy connector
24. CN24	ATX Power/Reset/LED connector
25. CN25	COM3-COM6 connector
26. CN26	Print 2 connector
27. CN27	COM-2 connector
28. CN28	MiniPCI
29. CN29	Compact Flash (IDE secondary slave)
30. DIMM1	DDR DIMM Socket
31. DIMM2	DDR DIMM Socket
32. FAN 1	CPU FAN
33. FAN2	System FAN
34. PCI1	PCI Slot-1
35. PCI2	PCI Slot-2 (optional)

CMOS Power (JP1)

Closed pins	Result
1-2	Default
2-3	Clear CMOS

JP3 COM1 - COM6 Pin-9 Voltage output select 11x2 , 2.0mm Pin-header)

Pin-1 => +5V	Pin-2 => +5V
Pin-3 => COM1-RI	Pin-4 => COM2-RI
Pin-5 => +12V	Pin-6 => +12V
Pin-7 => NC	Pin-8 => NC
Pin-9 => +5V	Pin-10 => +5V
Pin-11 => COM3-RI	Pin-12 => COM4-RI
Pin-13 => +12V	Pin-14 => +12V
Pin-15 => NC	Pin-16 => NC
Pin-17 => +5V	Pin-18 => +5V

JP3 COM1 - COM6 Pin-9 Voltage output select 11x2 , 2.0mm Pin-header)

Pin-1 => +5V	Pin-2 => +5V
Pin-3 => COM1-RI	Pin-4 => COM2-RI
Pin-19 => COM5-RI	Pin-20 => COM6-RI
Pin-21 => +12V	Pin-22 => +12V

Example :

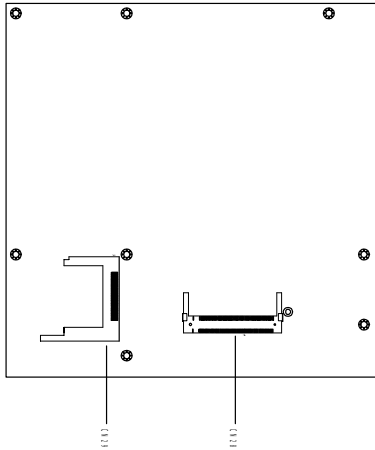
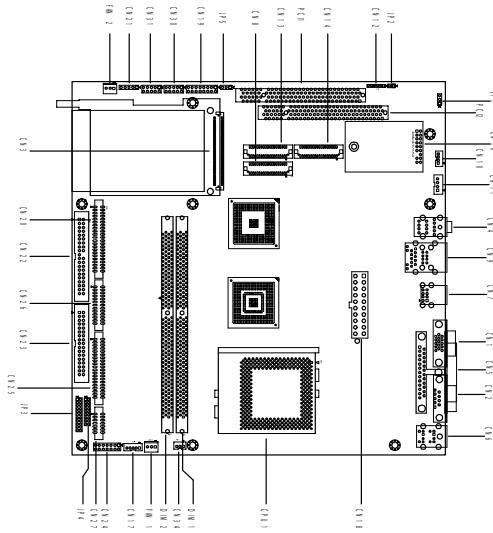
COM-1 Select +5V Output step => Change the JP4 Pin-7,8 jumper to JP3 Pin-1,3
 COM-1 Select +12V Output step => Change the JP4 Pin-7,8 jumper to JP3 Pin-3,5
 COM-2 Select +5V Output step => Change the JP4 Pin-9,10 jumper to JP3 Pin-2,4
 COM-2 Select +12V Output step => Change the JP4 Pin-9,10 jumper to JP3 Pin-4,6
 COM-3 Select +5V Output step => Change the JP4 Pin-11,12 jumper to JP3 Pin-9,11
 COM-3 Select +12V Output step => Change the JP4 Pin-11,12 jumper to JP3 Pin-11,13
 COM-4 Select +5V Output step => Change the JP4 Pin-13,14 jumper to JP3 Pin-10,12
 COM-4 Select +12V Output step => Change the JP4 Pin-13,14 jumper to JP3 Pin-12,14
 COM-5 Select +5V Output step => Change the JP4 Pin-15,16 jumper to JP3 Pin-17,19
 COM-5 Select +12V Output step => Change the JP4 Pin-15,16 jumper to JP3 Pin-19,21
 COM-6 Select +5V Output step => Change the JP4 Pin-17,18 jumper to JP3 Pin-18,20
 COM-6 Select +12V Output step => Change the JP4 Pin-17,18 jumper to JP3 Pin-20,22

JP4 COM-2 RS232/422/485 and COM-1 to COM-6 Ring signal select (9x2 , 2.0 mm Pin-header)

Pin-1 => RxD	Pin-2 => RxD485
Pin-3 => RxD	Pin-4 => RxD422
Pin-5 => RxD	Pin-6 => RxD232
Pin-7 => COM-1 RING# input	Pin-8 => System RING1# Signal
Pin-9 => COM-2 RING# input	Pin-10 => System RING2# Signal
Pin-11 => COM-3 RING# input	Pin-12 => System RING3# Signal
Pin-13 => COM-4 RING# input	Pin-14 => System RING4# Signal
Pin-15 => COM-5 RING# input	Pin-16 => System RING5# Signal
Pin-17 => COM-6 RING# input	Pin-18 => System RING6# Signal

COM-2 RS-232 Jumper setting : Pin-5,6 (Default)
 COM-2 RS-422 Jumper setting : Pin-3,4
 COM-2 RS-485 Jumper setting : Pin-1,2
 COM-1 RING# signal select => Pin-7,8 (Default)
 COM-2 RING# signal select => Pin-9,10 (Default)
 COM-3 RING# signal select => Pin-11,12 (Default)
 COM-4 RING# signal select => Pin-13,14 (Default)
 COM-5 RING# signal select => Pin-15,16 (Default)
 COM-6 RING# signal select => Pin-17,18 (Default)

Locating Jumpers and Connectors



AIMB-330F Jumpers & Connectors

