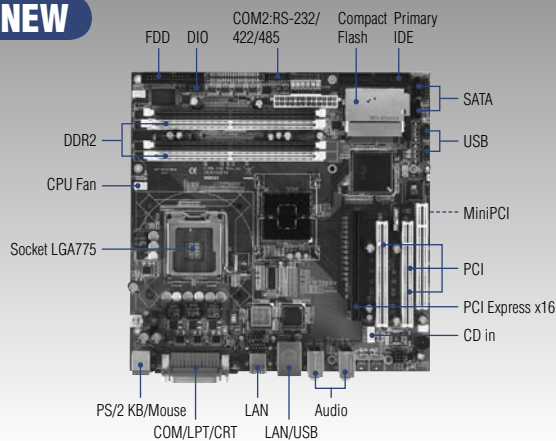


# AIMB-342

Socket 775 Embedded ATX SBC  
w/LVDS, HD audio, PCIe x16

NEW



## Features

- Supports LGA 775 Pentium® 4/ Celeron® D processors
- Intel® 945G chipset 533/800/1066 FSB
- Dual channel DDR2 533 up to 4 GB
- Dual LVDS
- Eight USB 2.0 ports
- Six COM ports
- Four Serial ATA devices
- HD audio
- PCIe x16

## Specifications

### General

- **CPU** Socket LGA 775 supports LGA775 Pentium 4/ Celeron D (355) up to 3.4 GHz
- **2nd Cache Memory** Celeron D: 256 KB/Pentium 4: 512 KB
- **System Chipset** Intel 945G/ICH7 chipset
- **BIOS** AWARD® 4 Mbit flash BIOS
- **System Memory** 2 x DDR2 DIMM, Max. 4 GB
- **Power Management** APM 1.2
- **SSD** CompactFlash® card support
- **Watchdog Timer** 255 levels, system reset
- **Expansion Interface** 3 x PCI, 1 x Mini PCI, 1 x PCI-E x16 (AIMB-342E)
- **Battery** Lithium 3 V/220 mA

### I/O

- **I/O Interface** 1 x EIDE (40-pin Ultra DMA 66 & 100 and 44-pin Ultra DMA 33), 1 x K/B, 1 x mouse, 1 x RS-232/422/485, 5 x RS-232, 1 x LPT, 1 x FDD
- **USB** 8 x USB 2.0
- **Audio** Supports Mic-in, Line-in, CD audio in, Line-out
- **IrDA** 115.2 kbps, IrDA 1.0 compliant
- **GPIO** 4 TTL digital out, 4 TTL digital in

### Ethernet

- **Chipset** Intel 86562 or Intel 82573
- **Speed** 10/100Base-T or 1000Base-T
- **Interface** 2 x RJ-45
- **Standard** IEEE 802.3, IEEE 802.3u, IEEE 802.3 z/ab (optional)

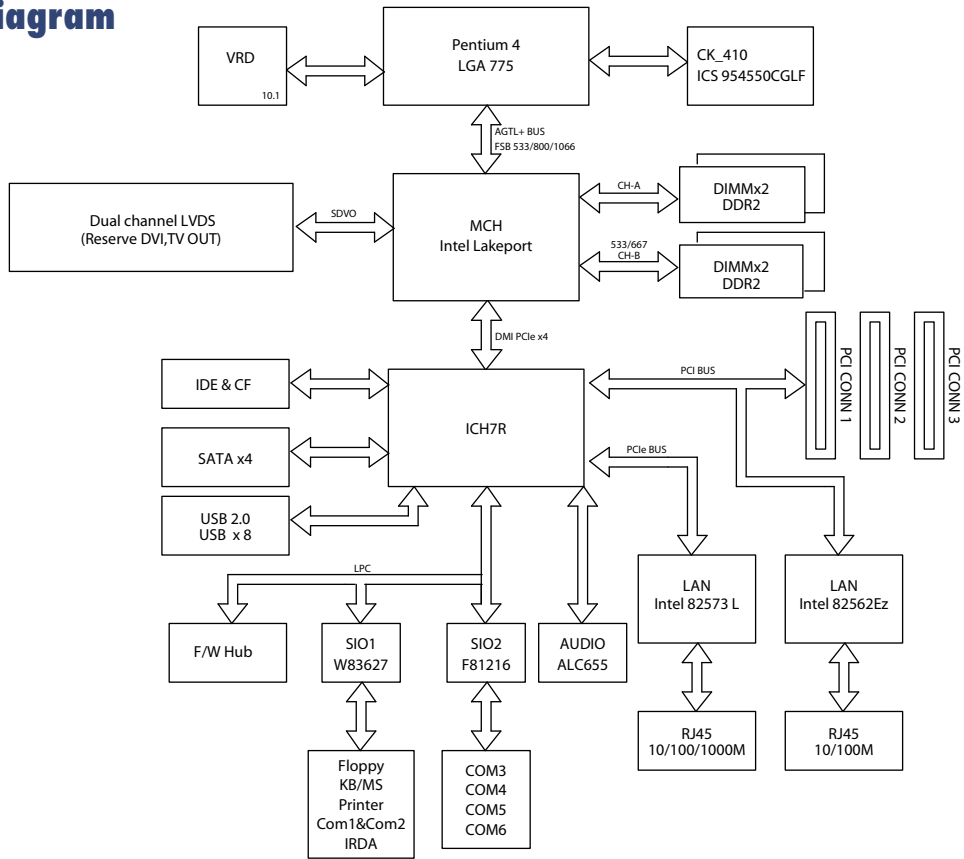
### Display

- **Chipset** 945G
- **Memory Size** Intel Direct Memory Execution model uses system memory
- **Resolution** CRT mode: up to 2048 x 1536 with 32-bit @ 85 Hz  
LCD mode: Dual 18/24-bit LVDS panel support  
Dual display resolutions up to UXGA (1600 x 1200) with frequency range from 25 ~ 112 MHz

### Mechanical and Environmental

- **Dimension (L x W)** 244 x 244 mm (9.6" x 9.6")
- **Weight** 0.8 kg (weight of total package)
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F), operation
- **Operating Humidity** 0% ~ 90% relative humidity, noncondensing
- **Power Supply Voltage** +5 V ±5 %, +12 V ±5 %, -12 V ±5 %
- **Power Consumption** AIMB-342F  
Typical: 0.8 A @ 5 V, 0.53 A @ 12 V  
AIMB-342E  
Typical: 0.67 A @ 5 V, 0.46 A @ 12 V  
(Celeron D 3.2 GHz, 256 MB DDR2)

**Board Diagram**



**Packing List**

- 1 x AIMB-342 SBC
- 1 x Primary IDE cable (p/n: 1701400452)
- 1 x Secondary IDE cable (p/n:1701440350)
- 1 x COM port cable (p/n:1701140201)
- 1 x COM3-6 cable (p/n:1701400181)
- 1 x I/O Shield (p/n:1960001955)
- 1 x Jumper pack (p/n:9689000068)
- 1 x Startup Manual
- 1 x Utility CD

**Optional Accessories**

- FDD cable (p/n:1700340640)
- 2 SATA HDD data cable (p/n:1700071000)
- 2 SATA HDD power cable (p/n: 1703150102)
- USB cable (p/n: 1700000719)

**Ordering Information**

Part No.	LVDS	10/100	Giga	SATA	USB 2.0	RS-232	RS-232/422/485	GPIO	LPT	CF	miniPCI	Audio	PCI	PCIe x16
AIMB-342F-00A1E	2	1	1	4	8	5	1	4 in, 4 out	1	Yes	Yes	AC97	3	-
AIMB-342E-00A1E	-	1	-	2	8	1	1	4 in, 4 out	1	Yes	Yes	HD	3	1