Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

AIMB-262
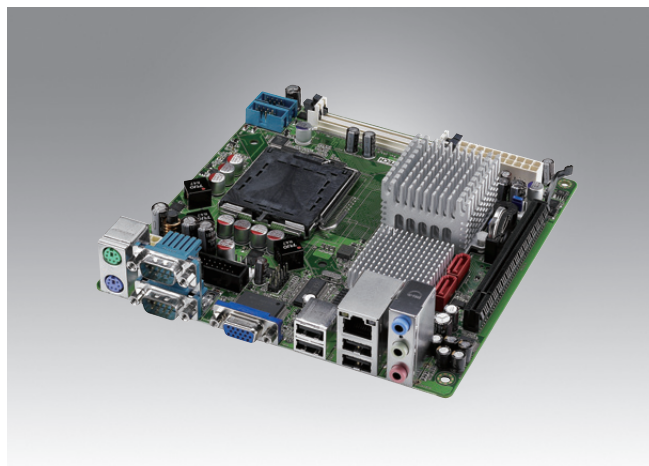
Features

- Supports Intel® LGA775 Core™2 Duo/Pentium® Dual-Core/Pentium® 4/ Celeron® processors with FSB 533/800/1066 MHz
- Intel 945GC and ICH7
- Two SODIMM sockets support up to 2 GB DDR2 533/667 MHz SDRAM
- Supports onboard CRT and PCIe x16 expansion for additional graphics card
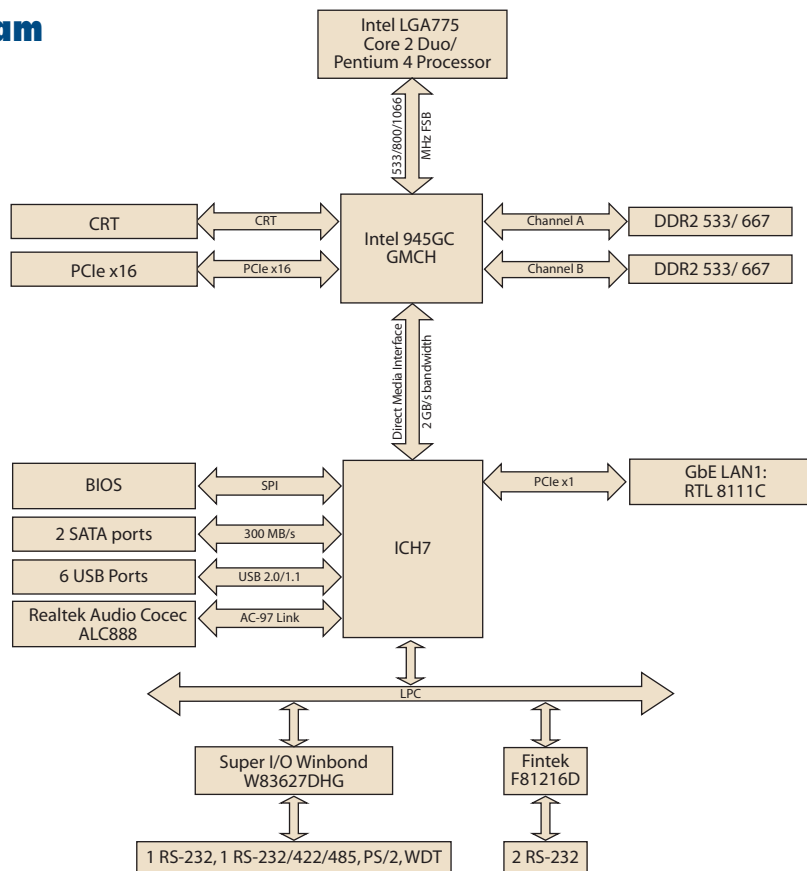- Supports SUSIAccess and Embedded Software APIs

Software APIs: H/W Monitor Watchdog

Utilities: BIOS flash Monitoring

Specifications

Processor System	CPU	Intel Core 2 Duo	Intel Pentium Dual-Core	Intel Pentium 4	Intel Celeron
	Max. Speed	E7400/E6700, 2.8/2.66 GHZ	E2200 2.2GHz	651 3.4 GHz	440 2.0 GHz
	Front Side Bus	1066 MHz	1066/800 MHz	800 MHz	800 MHz
	L2 Cache	3 MB/2 MB	1 MB	2 MB	512 K
	Chipset	Intel 945GC + ICH7			
	BIOS	Award 16 Mbit, SPI			
Expansion Slot	PCI	-			
	Mini-PCI	-			
	PCIe x16	4 GB/s per direction, 1 slot			
Memory	Technology	Dual channel DDR2 533/ 667 MHz SDRAM			
	Max. Capacity	2 GB			
	Socket	2 x 200-pin SODIMM (Non-ECC)			
Graphics	Controller	Intel Integrated Graphics Media Accelerator 950			
	VRAM	Shared system memory up to 224 MB			
Ethernet	Interface	10/100/1000 Mbps			
	Controller	GbE LAN1: Realtek RTL8111C			
	Connector	RJ-45 x 1			
SATA	Max Data Transfer Rate	300 MB/s			
	Channel	2			
Rear I/O	CRT	1			
	Ethernet	1			
	USB	4 (USB 2.0 compliant)			
	Audio	3 (Mic-in, Line-out, Line-in)			
	Serial	2 (1 x RS-232, 1 x RS-232/422/485)			
	Parallel	-			
	PS/2	2 (1 x keyboard and 1 x mouse)			
Internal Connector	USB	2 (USB 2.0 compliant)			
	Serial	2 (RS-232)			
	IDE	-			
	SATA	2			
	CompactFlash	-			
	Parallel	1			
	IrDA	-			
	GPIO	-			
Watchdog Timer	Output	System reset			
	Interval	Programmable 1 ~ 255 sec/min			

Power Requirements	Power On	Intel Core™ 2 Duo E4300 1.8GHz, 2 GB DDR2 SDRAM			
		5 V	3.3 V	12 V	5 Vsb	-12 V

	5 V	3.3 V	12 V	5 Vsb	-12 V
	4 A	1.02 A	2.35 A	0.26 A	0.12 A

Environment		Operating	Non-Operating
	Temperature	0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution	-20 ~ 70° C (-4 ~ 158° F)
Physical Characteristics	Dimensions	170 mm x 170 mm (6.69" x 6.69")	

ADVANTECH **Industrial Motherboards**

Block Diagram

```
                          Intel LGA775
                          Core 2 Duo/
                          Pentium 4 Processor

                                ↕ 533/800/1066 MHz FSB

    CRT ←──CRT──→    ┌──────────┐  ←─Channel A─→  DDR2 533/ 667
                     │Intel 945GC│
    PCIe x16 ←PCIe x16→│  GMCH    │  ←─Channel B─→  DDR2 533/ 667
                     └──────────┘
                                ↕ Direct Media Interface / 2 GB/s bandwidth

    BIOS ←──SPI──→    ┌──────┐  ←─PCIe x1─→  GbE LAN1:
                      │      │               RTL 8111C
    2 SATA ports ←300 MB/s→│ ICH7 │
    6 USB Ports ←USB 2.0/1.1→│      │
    Realtek Audio Cocec ←AC-97 Link→└──────┘
    ALC888
                                ↕ LPC

              Super I/O Winbond              Fintek
              W83627DHG                      F81216D

    1 RS-232, 1 RS-232/422/485, PS/2, WDT    2 RS-232
```

Ordering Information

Part Number	CRT	GbE LAN	COM
AIMB-262VG-00A1E	Yes	1	4

Packing List

Description	Quantity
SATA HDD cable	2
SATA Power cable	2
Serial cable	2
I/O port bracket	1
Startup manual	1
Driver CD	1

Optional Accessories

Part Number	Description
1700008809	Parallel port cable with bracket
1700002204	Dual port USB cable (27 cm) with bracket
1960022033T000	LGA775 CPU cooler for 2U and wallmount chassis
AIMB-LVDS-00A1E	ADD2 LVDS expansion card
AIMB-VGA-00A1E	ADD2 VGA expansion card

Embedded OS/API

OS/API	Part No.	Description
Win XPE	2070005409	XPE FP2007 AIMB-262 V3.01 ENG
	2070005410	XPE FP2007 AIMB-262 V3.01 CHT

I/O View

AIMB-262VG-00A1E