



**THE DATASHEET OF  
AIMB-562VG-GRA1E**



# AIMB-562 KIOSK

Intel® Core™2 Duo LGA 775  
MicroATX with Dual CRT/LVDS,  
10 COM, Single LAN



## Features

- Intel® 945G/945GC chipset supports 533/800/1066 MHz FSB
- Two 240-pin DIMMs up to 4 GB DDR2 533/667 MHz SDRAM
- Supports dual CRT and 24-bit LVDS panel, dual channel 3 W amplifier
- Supports 10 serial ports, 8 USB, 16-bit GPIO
- Supports SUSIAccess and Embedded Software APIs

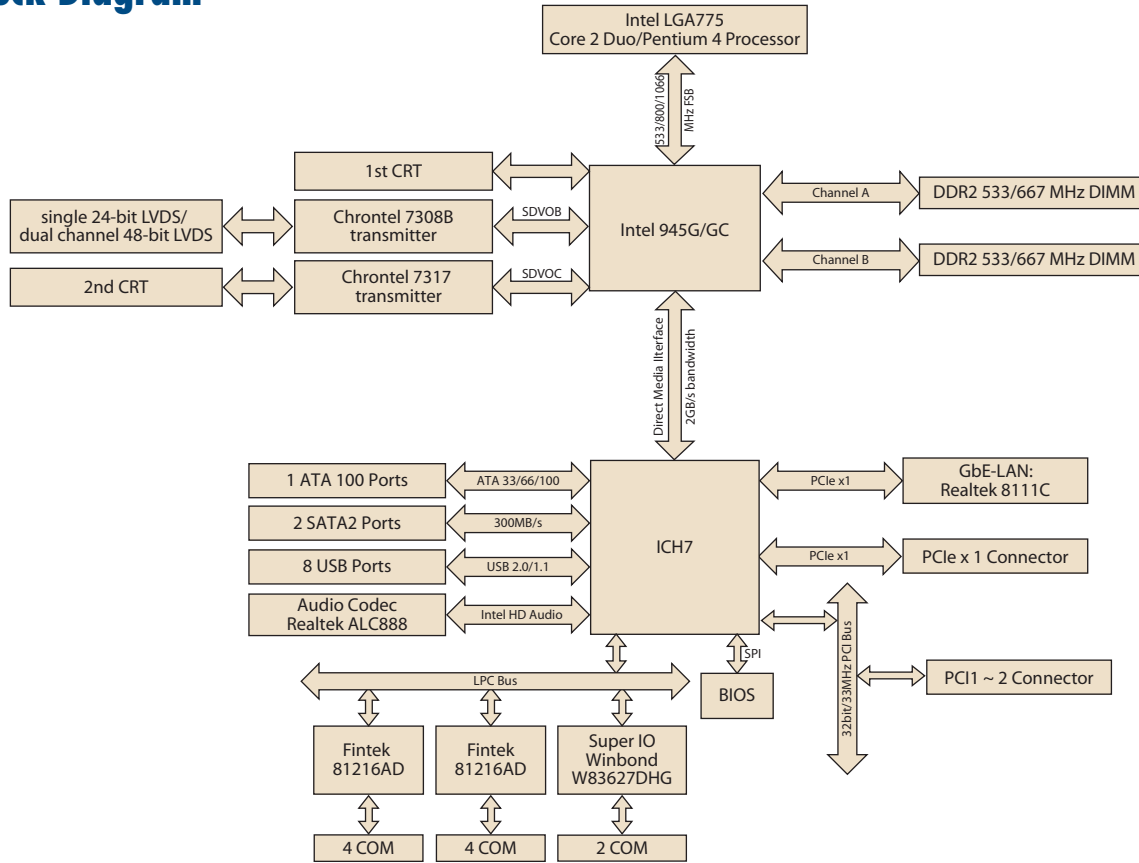
Software APIs:    

Utilities:  

## Specifications

Processor System	CPU (65 nm/90 nm)	Intel Core 2 Duo	Intel Pentium Dual-Core	Intel Pentium 4	Intel Celeron	
	Max. Speed	E7400 2.8 GHz	E2200 2.2 GHz	651 3.4 GHz	440 2.0 GHz	
	L2 Cache	4 MB	1 MB	2 MB	512 KB	
	Chipset	Intel 945G/945GC + ICH7				
	BIOS	Award 16 Mbit, SPI				
	Front Side Bus	533/800/1066 MHz				
Expansion Slot	PCIe x16	-				
	PCIe x1	250 MB per direction, 1 slot				
	PCI	32-bit/33 MHz, 2 slots				
Memory	Technology	Dual channel DDR2 533/667 MHz SDRAM				
	Max. Capacity	4 GB/2 GB per DIMM				
	Socket	2 x 240-pin DIMM (Non-ECC)				
Graphics	Embedded	Intel GMA 950 sharing 224 MB system memory				
	LVDS	Supports dual channel 48-bit and up to 1920 x 1200				
	2nd VGA	Supports 2nd CRT, via Chronitel 7317 SDVO transmitter				
	Dual Display	CRT + LVDS, CRT + CRT				
Ethernet	Interface	10/100/1000 Mbps				
	Controller	GbE LAN: Realtek 8111C				
	Connector	RJ-45 x 1				
SATA	Max. Data Transfer Rate	300 MB/s (SATA 2.0)				
	Channel	2				
EIDE	Mode	ATA 100/66/33				
	Channel	1 (max. 2 devices)				
I/O Interface	CRT	2				
	USB	8 (USB 2.0)				
	Audio	2 (Line-out, Mic-in)				
	Serial	10 (8 x RS-232, 2 x RS-232/422/485; COM 3 and COM 7 support RS-232/422/485 auto flow control)				
	Parallel	1 (SPP/EPP/ECP)				
	FDD	-				
	PS/2	2 (1 x keyboard and 1 x mouse)				
	GPIO	16-bit GPIO				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1 ~ 255 sec/min				
Power Requirements	Power On	Intel Core 2 Duo E4300 1.8 GHz FSB 800 MHz, 1 GB DDR2 667 SDRAM				
		3.3 V	5 V	12 V	5 Vsb	-12 V
		1.02 A	4 A	2.35 A	0.26 A	0.12 A
Environment	Temperature	Operating		Non-Operating		
		0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution		-20 ~ 70° C (-4 ~ 158° F)		
Physical Characteristics	Dimensions (W x D)	244 x 244 mm (9.6" x 9.6")				

## Block Diagram



## Ordering Information

Part Number	Chipset	Display	COM	GbE LAN
AIMB-562VG-KSA1E	945G	2 CRT/LVDS	10	1
AIMB-562VG-GRA1E	945G	2 CRT	10	1
AIMB-562L-KSA1E	945GC	1 CRT	10	1

\*We strongly suggest using only Advantech's certified LGA775 CPU coolers to ensure board reliability under harsh conditions.

## Riser Card

Part Number	Description
AIMB-R430P-03A2E	2U riser card for 3 PCI expansion

## I/O View



AIMB-562VG-KSA1E  
AIMB-562VG-GRA1E



AIMB-562L-KSA1E

## Packing List

Description	Quantity
IDE HDD cable	1
Serial ATA HDD data cable	2
Serial ATA HDD power cable	2
COM port cable kit	4
I/O port bracket	1
Startup manual	1
Utility CD	1

## Optional Accessories

Part Number	Description
1750000334	LGA775 CPU cooler (115 W)
1960022033T000	LGA775 CPU cooler for 2U chassis (2 VGA)
1960046434T000	LGA775 CPU cooler for 2U chassis (1 VGA)
1700008461	USB cable with four ports, 30.5 cm
1700002204	USB cable with dual ports, 27 cm
1700003195	USB cable with dual ports, 17.5 cm
1700008809	Printer port cable
1700000447	1-to-4 serial ports cable kit, 45 cm
1701400181	1-to-4 serial ports cable kit, 18 cm

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