

# AIMB-554

## Socket 478 Core™ 2 Duo/Core™ Duo/ Celeron® M Processor-based MicroATX with DDR2/Dual LAN



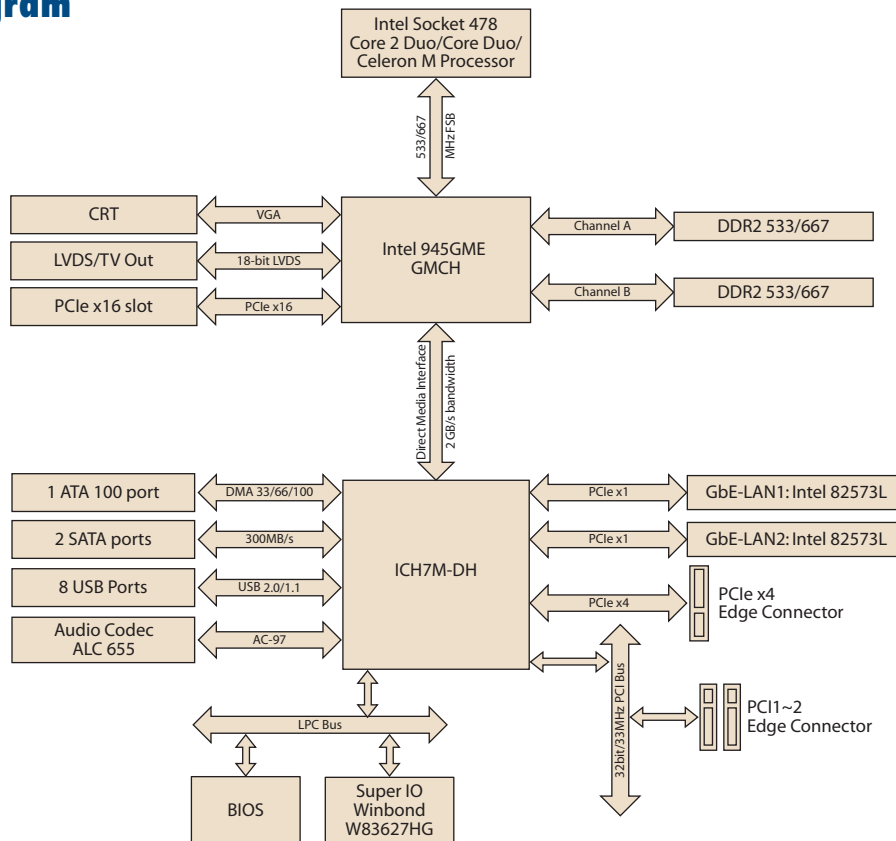
### Features

- Intel® 945 GME with ICH7M-DH chipset 667 MHz FSB
- Supports dual channel DDR2 400/533/667 SDRAM up to 4 GB
- Two SATA ports with support for software Serial ATA RAID 0, 1
- Supports dual 10/100/1000Base-T Ethernet via dedicated PCIe x1 bus
- Chipset integrated VGA
- PCIe x16 interface for VGA
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup

### Specifications

Processor System	CPU (65nm)	Intel® Core™ 2 Duo	Intel® Core™ Duo	Intel® Celeron M
	Max. Speed	2.16 GHz	2.0 GHz	1.86 GHz
	L2 Cache	2 MB/4 MB	2 MB	1 MB
	Chipset	Intel 945GME + ICH7M-DH		
	BIOS	Award® 4 Mbit FWH		
	Front Side Bus	533/667 MHz		
Expansion Slot	PCIe x16	4.0 GB/s per direction, 1 slot		
	PCIe x4	1.0 GB/s per direction, 1 slot		
	PCI	32-bit/33 MHz, 2 slots		
Memory	Technology	Dual channel DDR2 400/533/667 SDRAM		
	Max. Capacity	4 GB		
	Socket	240-pin DIMM x 2		
Graphics	Embedded	Intel GMA 950 sharing 224 MB system memory		
	LVDS	Single channel 18-bit/Dual channel 36-bit LVDS		
	TV-Out	Supports both S-video and composite video (TV-out function is not supported during POST stage)		
	Add-on	PCIe x16 slot		
Ethernet	Interface	10/100/1000 Base-T		
	Controller	GbE LAN1: Intel 82573L, GbE LAN2: Intel 82573L		
	Connector	RJ-45 x 2		
SATA	Max. Data Transfer Rate	300 MB/s		
	Channel	2		
EIDE	Mode	ATA 100/66/33		
	Channel	1 (Max. two devices)		
I/O Interface	VGA	1		
	LAN	1 (for VG version); 2 (for G2 version)		
	USB	8 (USB 2.0, 480Mbps; 4 external ports and 4 onboard pin headers)		
	Audio	2 (Line-Out and Mic-In)		
	Serial	2 (1 of RS-232/422/485 on pin header, 1 of RS-232 on rear I/O)		
	Parallel	1 (SPP/EPP/ECP)		
	FDD	1		
	PS/2	2 (keyboard and mouse)		
	Watchdog Timer	Output	System reset	
Interval		Programmable 1 ~ 255 sec/ min		
Power Requirement	Typical	Intel Core Duo-T2400 1.83GHz (667FSB) DDR2 667 1GB SDRAM X2		
		+5 V	+3.3 V	+12 V
		2.4 A	3 A	1.5 A
Environment		Operating		Non-Operating
	Temperature	0 ~ 60° C (32 ~ 140° F), depends on CPU's speed and cooler solution.		-20 ~ 70° C (-4~150° F)
Physical Characteristics	Dimensions (W x D)	244 mm x 244 mm (9.6" x 9.6")		

## Board Diagram



## Ordering Information

Part Number	VGA	GbE LAN
AIMB-554VG-00A1E	Yes	Single
AIMB-554G2-00A1E	Yes	Dual

\*AIMB-554 cannot be installed in ACP-2000MB chassis

## Riser Card

Part Number	Description
AIMB-R430P-03A1E	2U riser card with 3 PCI slot expansion
AIMB-R4104-01A1E	1U riser card with 1 PCIe x 4 slot expansion
AIMB-R431F-21A1E	2U riser card for 1 PCIe x 16 and 1 PCIe x 1 expansion
AIMB-R43PF-21A1E	2U riser card for 1 PCIe x 16 and 1 PCI x 1 expansion

## Bracket View



AIMB-554VG-00A1E



AIMB-554G2-00A1E

## Packing List

Part Number	Description	Quantity
1700340640	FDD cable	x 1
1701400452	IDE HDD cable	x 1
1700003194	Serial ATA HDD data cable	x 2
1703150102	Serial ATA HDD power cable	x 2
1701090401	COM port cable kit	x 1
9689000068	Jumper pack	x 1
1960012533T000	I/O port bracket	x 1
-	Startup manual	x 1
-	Utility CD	x 1
1750000540	CPU cooler (for 2U and 2U+ chassis)	x 1

## Accessories

Part Number	Description
1700002331	TV-out cable
1750000348	CPU cooler (for 1U chassis, ambient temperature reduce to 55 degree C)
1700002314	USB cable with four ports, 30.5cm
1700002204	USB cable with dual ports, 27cm
1700003195	USB cable with dual ports, 17.5cm