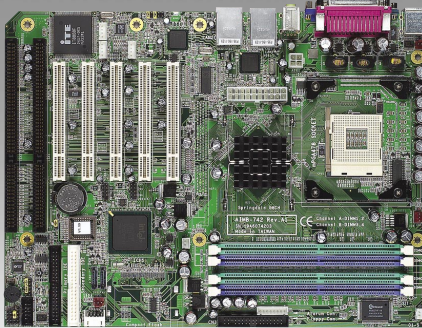


# AIMB-742-L

**Socket 478 Pentium® 4/Celeron®  
Industrial ATX Motherboard with  
Dual DDR/Dual Ethernet LAN  
(400/533/800 MHz FSB)**

**NEW**



## Features

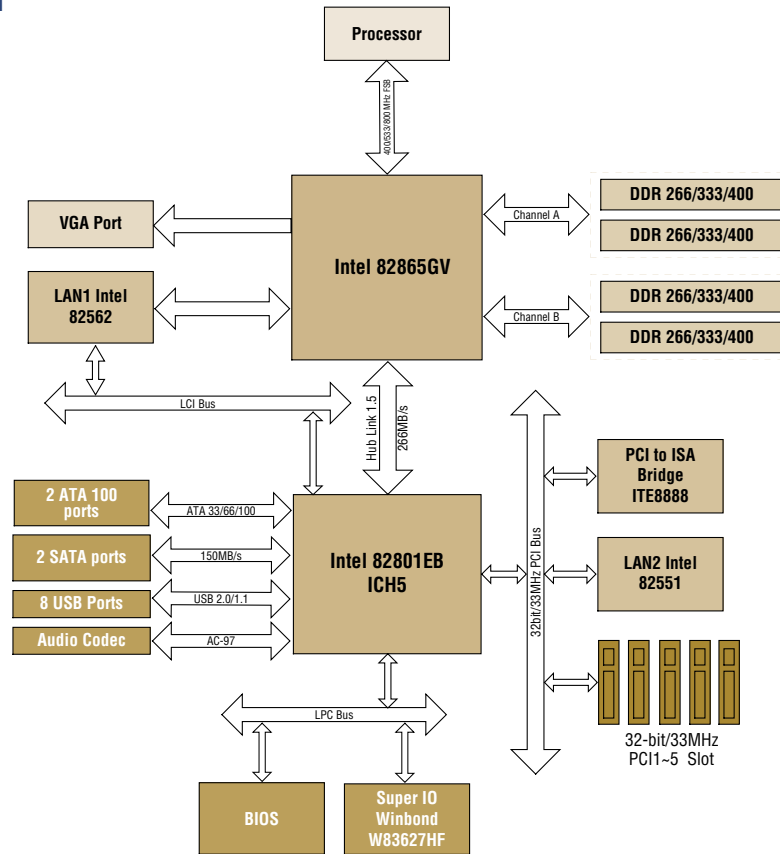
- Industrial grade motherboard with long life support
- Supports up to 2 Serial ATA devices
- Supports dual channel DDR 400 SDRAM
- Intel® 865GV chipset 400/533/800 MHz FSB
- Supports 10/100Base-T Ethernet
- 8 USB 2.0 ports
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup
- 2 ISA slots / 5 PCI slots (1 shared with ISA slot)
- Compatible with Advantech's IPC chassis

CE FCC

## Specifications

Processor System	CPU	Intel Pentium 4	Intel Celeron
	Max. Speed	3.06 GHz (533 FSB) 3.4 GHz (800 FSB)	2.8 GHz
	L2 Cache	1024/512KB	256/128KB
	Chipset	Intel® 865GV + ICH5	
	BIOS	Award 4 Mb FWH	
Bus	Front Side Bus	400/533/800 MHz	
	AGP	None	
	PCI	32-bit/33 MHz, 5 slots (1 shared with ISA slot)	
	ISA	16-bit/8 MHz, 2 slots	
Memory	Technology	Dual channel DDR266/333/400 SDRAM	
	Max. Capacity	4 GB	
	Socket	184-pin DIMM x 4	
Graphic	Controller	Chipset integrated VGA controller	
	VRAM	Dynamically shared system memory up to 64 MB	
Ethernet	Interface	10/100Base-T	
	Controller	LAN 1: Intel 82562EZ LAN 2: Intel 82551QM	
	Connector	RJ-45 x 2	
SATA	Max. Data Transfer Rate	150MB/Sec	
	Channel	2	
EIDE	Mode	ATA 100/66/33	
	Channel	2 (Max. 4 devices)	
I/O Interface	VGA	1	
	USB	Max. 8 (USB 2.0 compliant), 4 ports on board	
	Audio	2 (LINE-Out and MIC-In)	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP/ECP)	
	FDD	1	
	PS/2	2 (Keyboard and Mouse)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable 1~255 sec.	
Miscellaneous	Solid State Disk	1 Type I/II CompactFlash socket (Optional, upon request)	
Power Requirement	Typical	Pentium 4 3.4GHz, 2GB DDR400 SDRAM	
		+3.3 V                      +5 V                      5VSBY                      +12 V 9.31A                      0.71A                      0.5A                      9.77A	
Environment	Temperature	Operating	Non-Operating
		0 ~ 60 °C (32 ~ 140 °F), depends on CPU's speed	-20 ~ 70 °C (-4 ~ 158 °F)
Physical	Dimensions	304.8 x 228.6 mm (12" x 9")	

## Block Diagram



## Ordering Information

Part Number	Fast Ethernet LAN
AIMB-742VE-LOA1	Single
AIMB-742E2-LOA1	Dual

## Packing List

▪ FDD cable	X 1	1700340640
▪ IDE HDD cable	X 2	1701400452
▪ Serial ATA HDD data cable	X 2	1700071000
▪ Serial ATA HDD power cable	X 2	1703150102
▪ ATX 12V power converter cable	X 1	170304015K
▪ COM port cable kit	X 1	1701090401
▪ Jumper pack	X 1	9689000068
▪ I/O port bracket	X 1	1962015680
▪ Startup manual	X 1	--
▪ Utility CD	X 1	--

## Accessory Options

▪ CPU cooler for Pentium 4 up to 2.8 GHz, for 1U chassis		1759214200
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