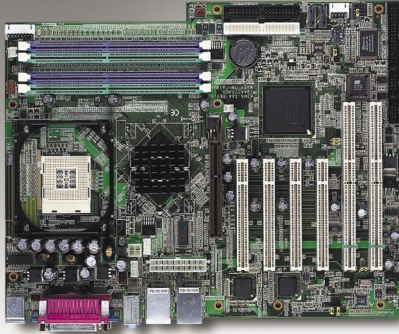


# AIMB-744

**Socket 478 Pentium® 4/Celeron®  
Industrial ATX Motherboard with  
64-bit PCI-X/AGP/Dual Gigabit LAN  
(400/533/800 MHz FSB)**

**NEW**



## Features

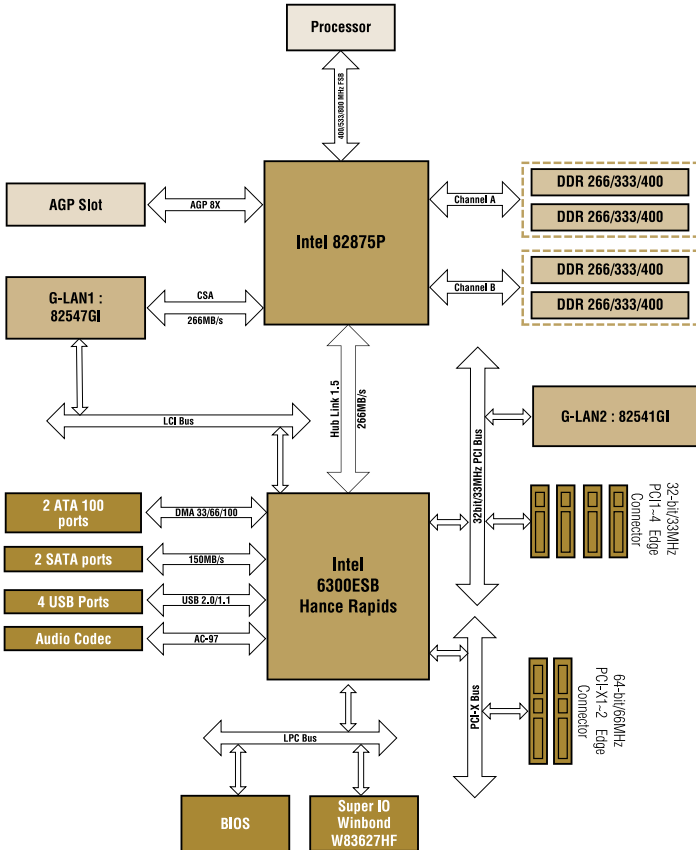
- Industrial grade motherboard with long life support
- Supports up to 2 Serial ATA devices
- Supports Dual Channel DDR 400 SDRAM
- Intel® 875P chipset 400/533/800 MHz FSB
- 64-bit, 66MHz PCI-X
- Supports 10/100/1000Base-T Ethernet
- 4 USB 2.0 ports
- CMOS automatic backup & restore prevents accidental loss of BIOS setup
- 1 AGP slot / 2 PCI-X slots / 4 PCI slots
- Compatible with Advantech's 1U, 2U, 4U, 5U and 7U chassis

CE FCC

## Specifications

Processor System	CPU (0.13 & 0.09 micron)	Intel Pentium 4	Intel Celeron	
	Max. Speed	3.06 GHz (533 FSB) 3.4 GHz (800 FSB) * Vcore 1.75V CPU (Willamete) Cache512/256 KB128 not supported	2.8 GHz	
	L2 Cache	1 MB/512 KB	256 KB	
	Chipset	Intel® 875P + 6300ESB		
	BIOS	Award 4 Mb FWH		
Bus	Front Side Bus	400/533/800 MHz		
	AGP	AGP 3.0 with 4X and 8X, 0.8 V and 1.5 V, 1 slot		
	PCI	32-bit/33 MHz, 4 slots		
	PCI-X	64-bit/66 MHz, 2 slots		
Memory	Technology	Dual Channel DDR266/333/400 SDRAM with ECC support		
	Max. Capacity	4 GB		
	Socket	184-pin DIMM x 4		
Ethernet	Interface	10/100/1000Base-T		
	Controller	LAN 1: Intel 82547GI (Gigabit, CSA) LAN 2: Intel 82541GI (Gigabit)		
	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	USB	4 (USB 2.0 compliant)		
	Audio	2 (LINE-Out and MIC-In)		
	Serial	4 (RS-232, 2 ports and 2 onboard pin headers)		
	Parallel	1 (SPP/EPP/ECP)		
	FDD	1		
	PS/2	2 (Keyboard and Mouse)		
Watchdog Timer	Output	Interrupt, system reset		
	Interval	Programmable 1~255 sec.		
Power Requirement	Typical	Pentium 4 3.2 GHz, 4 GB DDR 266/333/400 SDRAM		
		+3.3 V	+5 V	+12 V
		8.13 A	0.57 A	5.29 A
Environment	Temperature	Operating	Non-Operating	
		0~60 °C (32~140F), depends on CPU's speed	-20~70 °C (-40 ~ 158 °F)	
Physical	Dimensions	304.8 x 243.8 mm (12" x 9.6")		

Block Diagram



Ordering Information

Part Number	Fast Ethernet LAN	Gigabit LAN
AIMB-744L-00A1	--	--
AIMB-744G-00A1	--	Single
AIMB-744G2-00A1	--	Dual

Packing List

▪ FDD cable	x1	1700340640
▪ IDE HDD cable	x2	1701400452
▪ Serial ATA HDD data cable	x2	1700071000
▪ Serial ATA HDD power cable	x2	1703150102
▪ ATX 12V power converter cable	x1	170304015K
▪ COM port cable kit	x1	1701090401
▪ Jumper pack	x1	9689000068
▪ I/O port bracket	x1	1962015680
▪ Startup manual	x1	--
▪ Utility CD	x1	--

Accessory Options

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