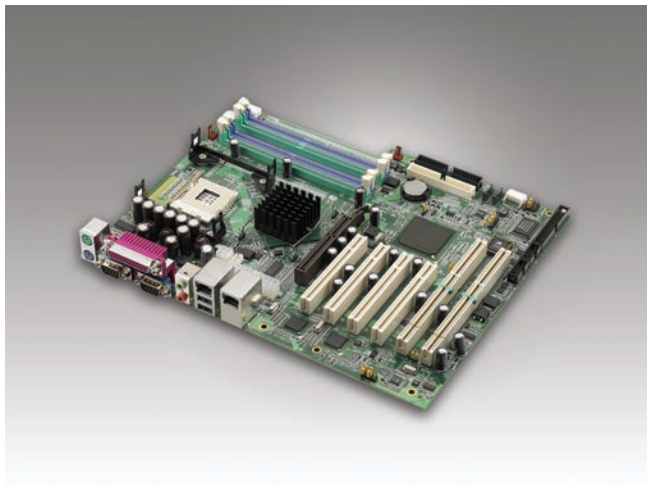


# AIMB-744

## Socket 478 Pentium® 4/Celeron® D/Celeron Processor-based ATX with 64-bit PCI-X/AGP/ Dual GbE LAN



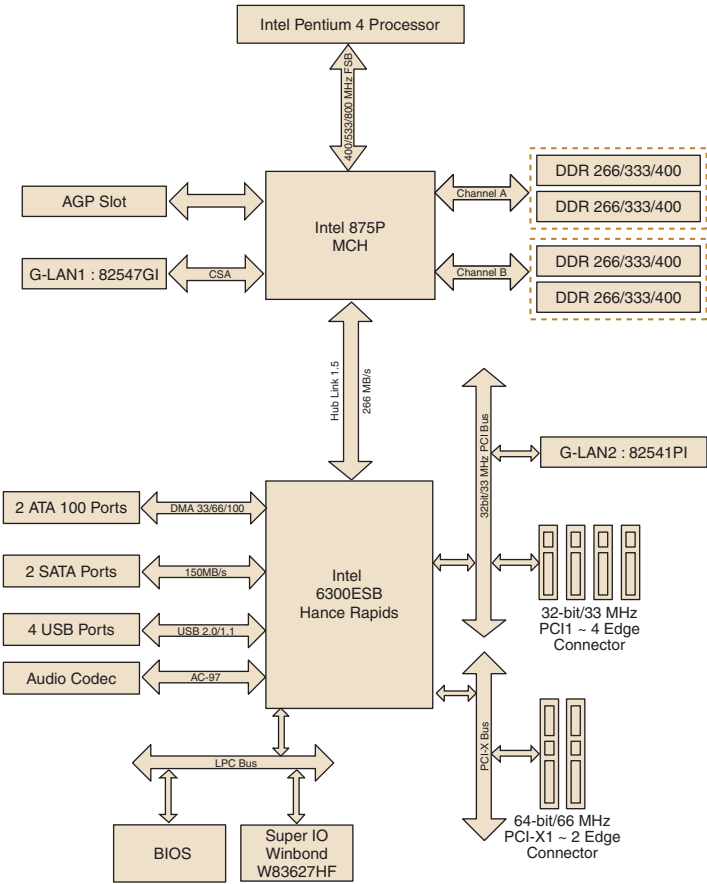
### Features

- Intel® 875P with 6300ESB chipset 400/533/800 MHz FSB
- Supports dual channel DDR 400 SDRAM with ECC/non-ECC support
- Supports up to two devices with software Serial ATA RAID 0, 1
- 64-bit, 66 MHz PCI-X
- Supports 10/100/1000Base-T Ethernet
- One AGP slot
- CMOS automatic backup & restore prevents accidental loss of BIOS setup
- Compatible with Advantech's 1U, 2U, 4U, 5U and 7U chassis

### Specifications

Processor System	CPU (90nm/ 130nm)	Intel® Pentium® 4	Intel® Celeron® D	Intel® Celeron®
	Max. Speed	3.06 GHz (533 FSB) 3.4 GHz (800 FSB) * Vcore 1.75V CPU (Willamette) not supported	3.06 GHz	2.8 GHz
	L2 Cache	256/512/1024 KB	256 KB	128/256 KB
	Chipset	Intel 875P + 6300ESB		
	BIOS	Award™ 4 Mbit FWH		
	Front Side Bus	400/533/800 MHz		
Expansion Slot	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 DDR 266/333/400 SDRAM with ECC/non-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 82541PI (Gigabit)		
	Connector	RJ-45 x 2		
SATA	Max. Data Transfer Rate	150 MB/s		
	Channel	2		
EIDE	Mode	ATA 100/66/33		
	Channel	2 (Max. 4 devices)		
I/O Interface	USB	4 (USB 2.0, 480Mbps; 4 external ports)		
	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	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		Operating		Non-Operating
	Temperature	0 ~ 60° C (32 ~ 140° F), depends on CPU's speed and cooler solution		-20 ~ 70° C (-4 ~ 158° F)
Physical Characteristics	Dimensions (W x D)	304.8 x 243.8 mm (12" x 9.6")		

### Block Diagram



### Ordering Information

Part Number	Fast Ethernet LAN	Gigabit LAN
AIMB-744G-00A3E	-	Single
AIMB-744G2-00A3E	-	Dual

### Packing List

Part Number	Description	Quantity
1700340640	FDD cable	x 1
1701400452	IDE HDD cable	x 2
1700003194	Serial ATA HDD data cable	x 2
1703150102	Serial ATA HDD power cable	x 2
1701092300	Dual COM port cable kit	x 1
9689000068	Jumper pack	x 1
1962015680	I/O port bracket	x 1
-	Startup manual	x 1
-	Utility CD	x 1

### Bracket View



AIMB-744G2-00A3E



AIMB-744G-00A3E

### Accessories

Part Number	Description
1759214200	CPU cooler for Pentium 4 processor up to 2.8 GHz (70 W), for 1U chassis
1750000257	CPU cooler for Pentium 4 processor up to 3.2 GHz (89 W), for 2U or higher chassis
1700002314	USB cable with four ports, 30.5cm
1700002204	USB cable with dual ports, 27cm
1700003195	USB cable with dual ports, 17.5cm