

AIMB-744-A2

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



Features

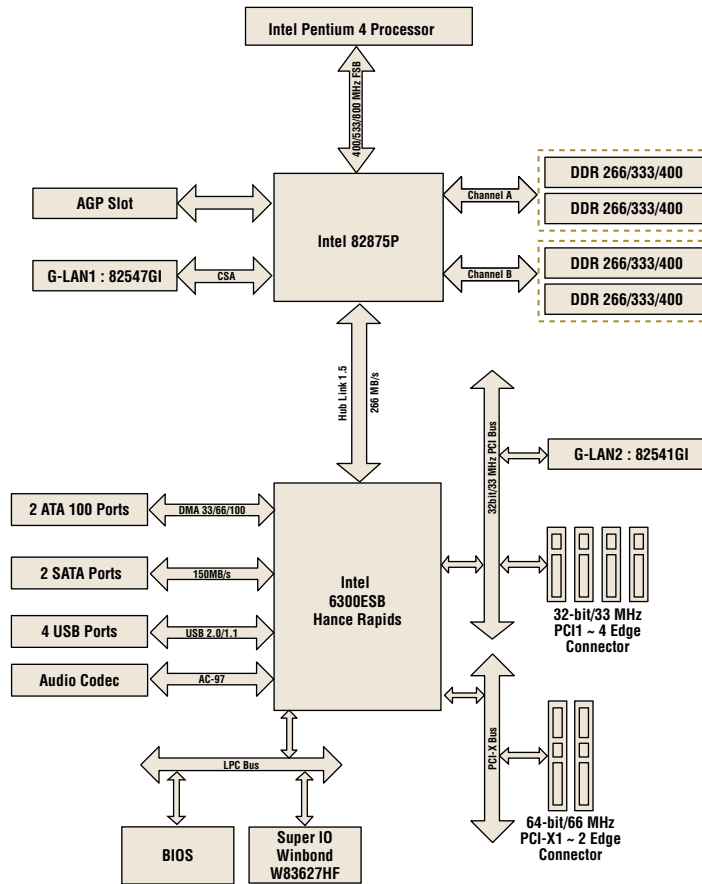
- Industrial grade motherboard with long life support
- Intel® 875P with 6300ESB chipset 400/533/800 MHz FSB
- Supports dual channel DDR 400 SDRAM
- Supports up to two devices with software Serial ATA RAID 0,1
- 64-bit, 66 MHz PCI-X
- Supports 10/100/1000Base-T Ethernet
- 4 USB 2.0 ports (2 switchable)
- 1 AGP slot/2 PCI-X slots/4 PCI slots
- CMOS automatic backup & restore prevents accidental loss of BIOS setup
- Compatible with Advantech's 1U, 2U, 4U, 5U and 7U chassis

CE FCC

Specifications

Processor System	CPU	Intel Pentium® 4	Intel Celeron® D	Intel Celeron
	Max. Speed	3.06 GHz (533 FSB) 3.4 GHz (800 FSB) * Vcore 1.75V CPU (Willamete) 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		
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 DDR 266/333/400 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	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; switchable, 2 of front panel and 2 of rear I/O, or all 4 of rear I/O)		
	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
		0.13 A	0.57 A	5.29 A
Environment	Operating			Non-Operating
	Temperature	0~60 °C (32~140 °F), depends on CPU's speed		-20~70 °C (-40 ~ 158 °F)
Physical Characteristics	Dimensions	304.8 x 243.8 mm (12" x 9.6")		

Block Diagram



Ordering Information

Part Number	Fast Ethernet LAN	Gigabit LAN
AIMB-744L-00A2	-	-
AIMB-744G-00A2	-	Single
AIMB-744G2-00A2	-	Dual

Packing List

Part Number	Description	Quantity
1700340640	FDD cable	x 1
1701400452	IDE HDD cable	x 2
1700071000	Serial ATA HDD data cable	x 2
1703150102	Serial ATA HDD power cable	x 2
170304015K	ATX 12V power converter cable	x 1
1701092300	Dual COM port cable kit	x 1
9689000068	Jumper pack	x 1
1962015680	I/O port bracket	x 1
2002074412	Startup manual	x 1
2066000E05	Utility CD	x 1

Bracket View



AIMB-744L-00A2



AIMB-744G-00A2



AIMB-744G2-00A2

Optional Accessories

Part Number	Description
1759214200	CPU cooler for Pentium 4 processor up to 2.8 GHz (70 W), for 1U chassis
1750000073	CPU cooler for Pentium 4 processor up to 3.2 GHz (89 W), for 2U or higher chassis