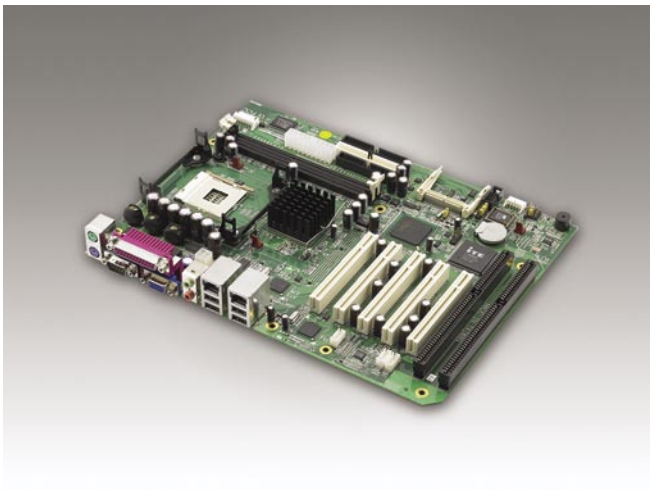
AIMB-740-B

Socket 478 Pentium® 4/Celeron® D/Celeron Processor-based ATX with VGA/Dual LAN



Features

- Intel® 845GV chipset 400/533 MHz FSB
- Chipset integrated VGA
- Supports 10/100Base-T Ethernet or 10/100/1000Base-T Ethernet
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup
- Compatible with Advantech's 1U, 2U, 4U, 5U and 7U chassis

RoHS COMPLIANT 2002/95/EC CE FCC

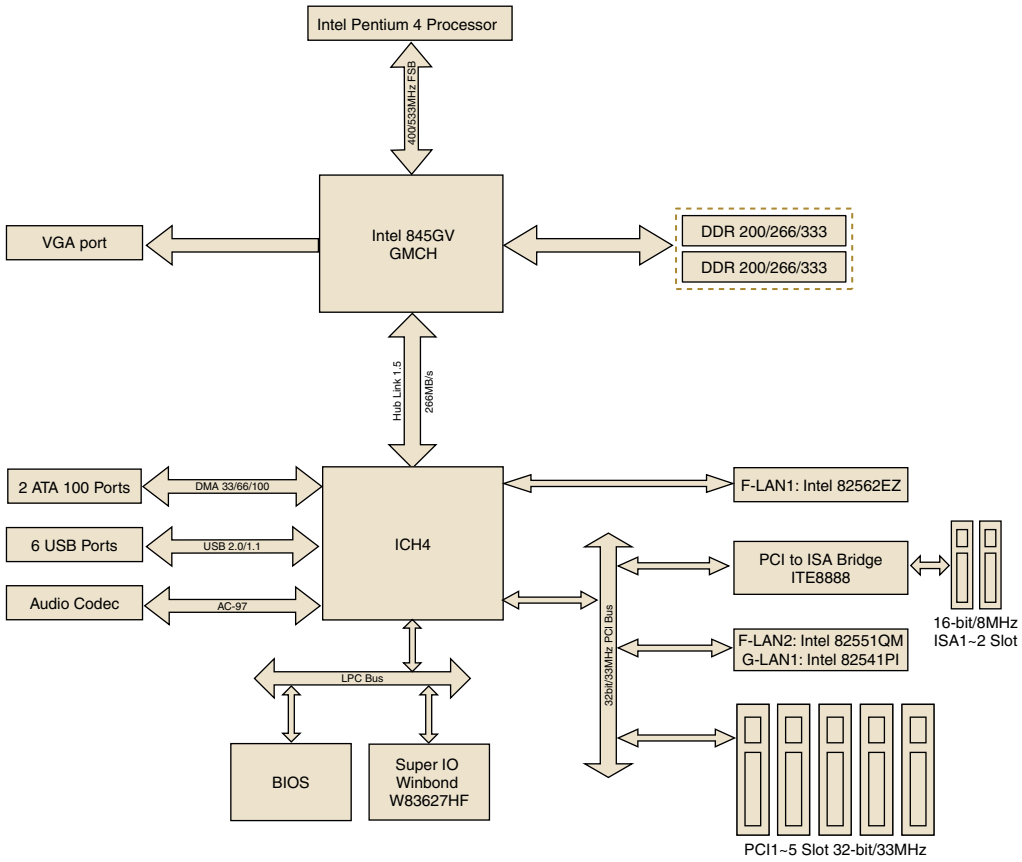
Specifications

Processor System	CPU (90 nm/130 nm)	Intel® Pentium® 4	Intel® Celeron® D	Intel® Celeron®
	Max. Speed	3.06 GHz (533 FSB)	3.06 GHz	2.8 GHz
	L2 Cache	256/512 KB	256 KB	128 KB
	Chipset	Intel 845GV		
	BIOS	Award™ 4 Mbit FWH		
	Front Side Bus	400/533 MHz		
Expansion Slot	PCI	32-bit/33 MHz, 5 slots (1 shared with ISA slot)		
	ISA	16-bit/8 MHz, 2 slots		
Memory	Technology	Single channel DDR 200/266/333 SDRAM		
	Max. Capacity	2 GB		
	Socket	184-pin DIMM x 2		
Graphic	Controller	Chipset integrated VGA controller		
	VRAM	Dynamically shared system memory 8-64 MB		
Ethernet	Interface	10/100Base-T or 10/100/1000Base-T		
	Controller	LAN1: Intel 82562EZ (FE) LAN2: Intel 82551QM (FE) LAN1: Intel 82541PI (Gigabit)		
	Connector	RJ-45 x 2		
EIDE	Mode	ATA 100/66/33		
	Channel	2 (Max. 4 devices)		
I/O Interface	VGA	1		
	USB	6 (USB 2.0, 480 Mbps; 2 external ports and 4 onboard pin headers)		
	Audio	2 (Line-Out and Mic-In)		
	Serial	2 (RS-232, 1 port and 1 onboard pin header)		
	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, 3.06 GHz, 2 GB DDR 200/266/333 SDRAM		
		+3.3 V	+ 5 V	+ 12 V
		4.23 A	1.35 A	4.17 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 228.6 mm (12" x 9")		

All product specifications are subject to change without notice

Last updated : 1-Mar-2007

Block Diagram



Ordering Information

Part Number	VGA	Fast Ethernet LAN	Gigabit LAN
AIMB-740VE-00B1E	Yes	Single	-
AIMB-740E2-00B1E	Yes	Dual	-
AIMB-740VG-00B1E	Yes	-	Single
AIMB-740V-00B1E	Yes	-	-

Packing List

Part Number	Description	Quantity
1700340640	FDD cable	x 1
1701400452	IDE HDD cable	x 2
1701090401	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-740VE-00B1E
AIMB-740VG-00B1E



AIMB-740E2-00B1E



AIMB-740V-00B1E

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