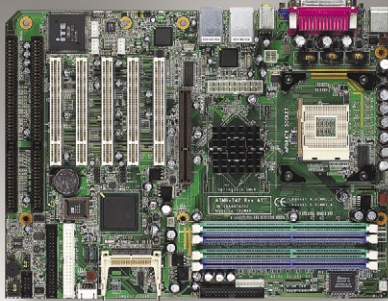


AIMB-742

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



Features

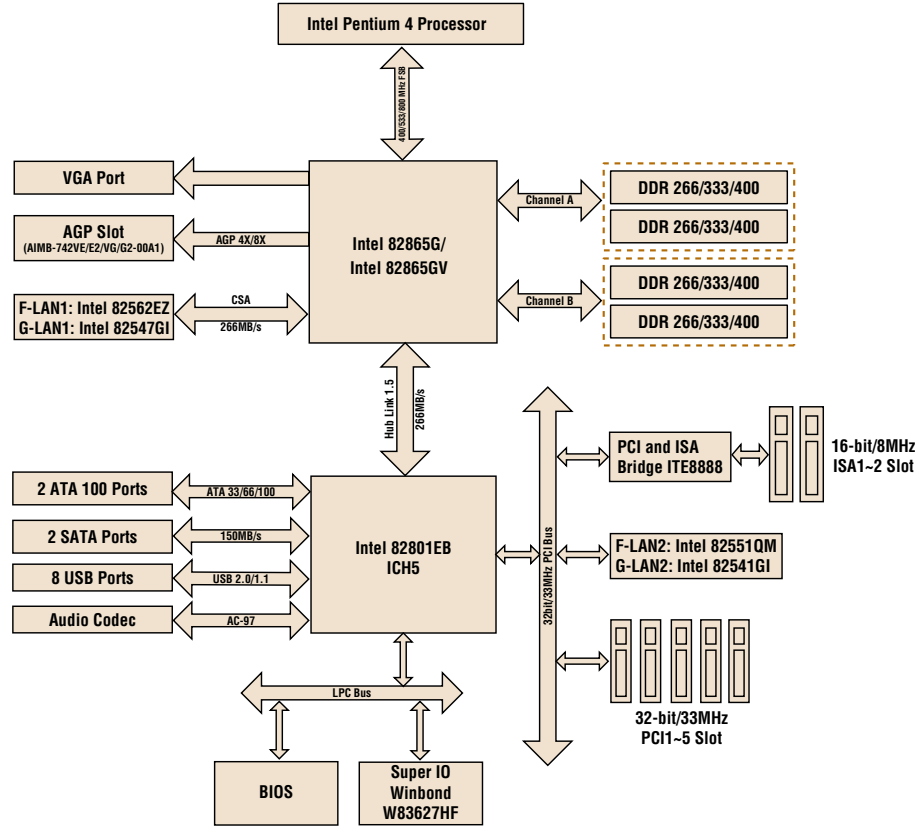
- Intel® 865G/865GV chipset 400/533/800 MHz FSB
- Supports dual channel DDR 266/ 333/ 400 SDRAM
- Supports up to 2 Serial ATA devices
- Onboard AGP 8X slot (00A1 Version Only)
- Supports 10/100Base-T Ethernet or 10/100/1000Base-T Ethernet
- Onboard 8 USB 2.0 ports
- 1 AGP slot / 2 ISA slots / 5 PCI slots (1 shared with ISA slot)
- Optional DVI panel support
- CMOS automatic backup and restore to prevent accidental data 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 865G/865GV + ICH5		
BIOS		Award 4 Mbit FWH		
Bus	Front Side Bus	400/533/800 MHz		
	AGP	AGP 3.0 with 4X and 8X, 0.8V and 1.5V, 1 slot; DVO card supported (No AGP supported for AIMB-742VE/E2-L0A1)		
	PCI	32-bit/33 MHz, 5 slots (1 shared with ISA slot)		
	ISA	16-bit/8 MHz, 2 slots		
Memory	Technology	dual channel DDR 266/333/400 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 or 10/100/1000Base-T		
	Controller	LAN 1: Intel 82562EZ (FE); Intel 82547GI (Gigabit, CSA) LAN 2: Intel 82551QM (FE); 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	VGA	1		
	USB	8 (USB 2.0, 480Mbps; 4 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 3.2 GHz, 4 GB DDR 266/333/400 SDRAM		
		+3.3 V	+5 V	+12 V
		9.26 A	0.43 A	5.42 A
Environment	Temperature	Operating		Non-Operating
		0 ~ 60 °C (32 ~ 140 °F), depends on CPU's speed		-20 ~ 70 °C (-4 ~ 158 °F)
Physical Characteristics	Dimensions	304.8 x 228.6 mm (12" x 9")		

Block Diagram



- Industrial Motherboards **1**
- Industrial Motherboard Chassis **2**
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- Industrial Computer Chassis **4**
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- Internet Security Platforms **11**
- Network Application Ready Platforms **12**

Ordering Information

Part Number	Fast Ethernet LAN	Gigabit LAN	AGP slot
AIMB-742VE-00A1	Single	-	V
AIMB-742E2-00A1	Dual	-	V
AIMB-742VG-00A1	-	Single	V
AIMB-742G2-00A1	-	Dual	V
AIMB-742VE-L0A1	Single	-	-
AIMB-742E2-L0A1	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
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-742VE-00A1
AIMB-742VG-00A1
AIMB-742VE-L0A1



AIMB-742E2-00A1
AIMB-742G2-00A1
AIMB-742E2-L0A1

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
9696070010	DVI card (for DVI panel display, BIOS upon request)