

AIMB-742

Preliminary

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



Features

- Industrial grade motherboard with long life support
- Support up to 2 SerialATA devices
- Support dual channel DDR 400 SDRAM
- Intel® 865G chipset 400/533/800 MHz FSB
- Onboard AGP 4X/8X slot
- Supports 10/100Base-T Ethernet or 10/100/1000Base-T Ethernet
- 8 USB 2.0 ports
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup
- 1 AGP slot / 2 ISA slots / 5 PCI slots (1 shared with ISA slot)
- Compatible with Advantech's 1U, 2U, 4U, 5U and 7U chassis

Specifications

Processor System	CPU	Intel Pentium 4 3.06 GHz (533 FSB)	Intel Celeron
	Max. Speed	3.0 GHz (800 FSB) * Don't support Vcore 1.75V CPU (Willamete)	2.4 GHz
	L2 Cache	512/256 KB	128KB
	Chipset	Intel® 865G + ICH4	
	BIOS	Award 4 Mb FWH	
Bus	Front Side Bus	400/533/800 MHz	
	AGP	AGP3.0 with 4X and 8X, 0.8V and 1.5V, 1 slot	
	PCI	32-bit/33 MHz, 5 slots (1 shared with ISA slot)	
	ISA	16-bit/8 MHz, 2 slots	
Memory	Technology	dual channel DDR266/333/400 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	150MB/Sec	
	Channel	2	
EIDE	Mode	ATA 100/66/33	
	Channel	2 (Max. 4 devices)	
I/O Interface	VGA	1	
	USB	Max. 8 (USB 2.0 compliant), 4 ports on board	
	Audio	2 (LINE-Out and MIC-In)	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP/ECP)	

Your ePlatform Partner

ADVANTECH

AIMB-742

	FDD	1				
	PS/2	2 (Keyboard and Mouse)				
Watchdog Timer	Output Interval	Interrupt, system reset	Programmable 1~255 sec.			
Miscellaneous	Solid State Disk	1 Type I/II CompactFlash socket	(Optional, upon request)			
Power Requirement	Typical	Pentium 4				
		+3.3 V	+5 V	-5 V	+12 V	-12V
		TBD	TBD	TBD	TBD	TBD
		Operating	Non-Operating			
Environment	Temperature	0 ~ 60 °C (32 ~ 140 °F), depends on CPU's speed	-20 ~ 70 °C (-4 ~ 158 °F)			
Physical	Dimensions	304.8 x 228.6 mm (12" x 9")				

Ordering Information

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

Packing List

FDD cable	X 1	1700340640
IDE HDD cable	X 2	1701400452
Serial ATA HDD data cable	X 2	1700071000
Serial ATA HDD power cable	X2	1703150102
ATX 12V power converter cable	X 1	170304015K
COM port cable kit	X 1	1701090401
Jumper pack	X 1	9689000068
I/O port bracket	X 1	1962015680
Startup manual	X 1	--
Utility CD	X 1	--

Accessory Options

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

