

ACP-2010MB/ 2000MB

2U Rackmount Chassis for ATX/ MicroATX Motherboard with Low-profile Rear Bracket Option

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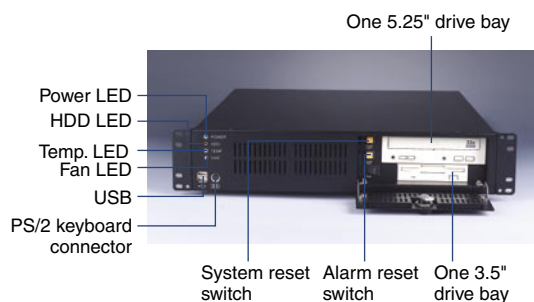


Features

- LED indicators and audible alarm notification for system fault detection
- Shock-resistant drive bays to hold one 5.25" and three 3.5" drives (one front-accessible and two internal)
- Various riser card options to support three full-length PCI or PCIe cards for expansion
- Supports 300 W / 400 W ATX PFC power supply
- Reusable and washable air filters

Specifications

		Front-accessible	Internal
Disk Drive Bay	5.25"	1	-
	3.5"	1	2
Cooling	Fan	2 (47 CFM each)	
	Air Filters	Yes	
I/O Interface	USB	2 (Front accessible)	
	PS/2	PS/2 keyboard and mouse, or PS/2 keyboard depends on the enclosed motherboard	
Miscellaneous	LED Indicators	Power, HDD, Temperature, Fan	
	Rear Panel	Reserved two 9-pin D-Sub openings	
	Slide Rails	General Devices (http://www.generaldevices.com) C-300 series supported (not included)	
Environment		Operating	Non-operating
	Temperature	0 ~ 40° C (32 ~ 104° F)	-20 ~ 60° C (-4 ~ 140° F)
	Humidity	10 ~ 85 % @ 40° C, non-condensing	10 ~ 95 % @ 40° C, non-condensing
	Vibration (5-500 Hz)	1 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	30 G
	Acoustic Noise	Less than 52 dB sound pressure at 5 ~ 28° C (41 ~ 82° F)	
Physical Characteristics	Altitude	0 to 3,048 m (0 ~ 10,000 ft)	
	Dimensions (W x H x D)	482 x 88 x 480 mm (19" x 3.46" x 18.9") (ACP-2010MB) 482 x 88 x 450 mm (19" x 3.46" x 17.7") (ACP-2000MB)	
	Weight	13.0 kg / 28.6 lb (ACP-2010MB) 12.5 kg / 27.5 lb (ACP-2000MB)	



Inside View



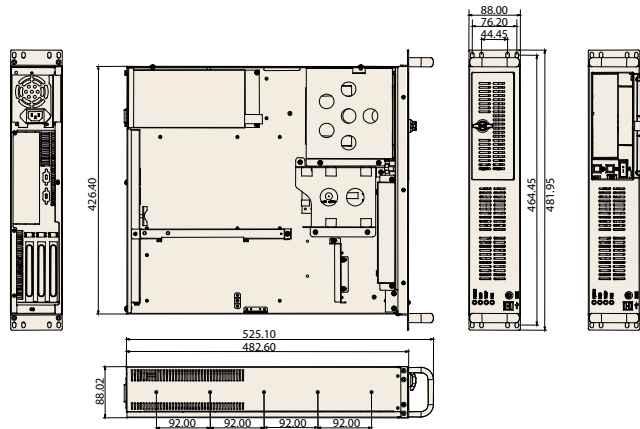
Rear view of ACP-2010MB



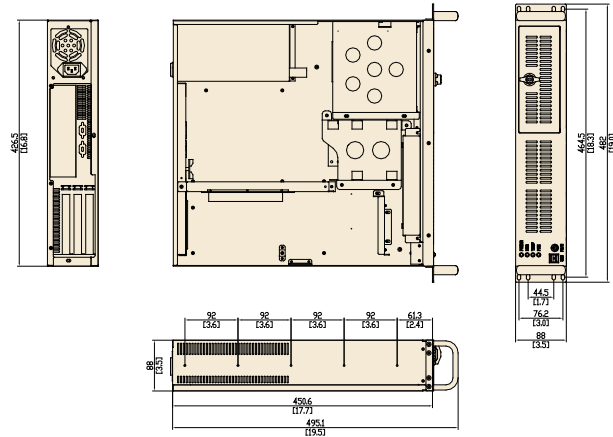
Rear I/O bracket for low profile
add-on cards

Dimensions

ACP-2010MB



ACP-2000MB



Unit: mm (inch)

Power Supply Options

Part Number	Watt	Input	Output	Specifications		
				Mini-load	Safety	MTBF
1757000007G (ATX, PFC)	300 W	AC 100 ~ 240 V (full range)	+5 V @ 35 A, +3.3 V @ 20 A, +12 V @ 16 A, -5 V @ 0.5 A, -12 V @ 1 A, +5 Vsb @ 2 A	+5 V @ 3 A, +3.3 V @ 1 A, +12 V @ 2 A, -5 V @ 0.05 A, -12 V @ 0.05 A, +5 Vsb @ 0.1 A	UL/TUV/CB/CCC	97,800 hrs @ 25° C
1757000105G (ATX, PFC) (ACP-2010MB only)	400 W	AC 100 ~ 240 V (full range)	+5 V @ 25 A, +3.3 V @ 20 A, +12 V @ 28 A, -5 V @ 0.5 A, -12 V @ 0.5 A, +5 Vsb @ 2 A	+5 V @ 3 A, +3.3 V @ 1 A, +12 V @ 2 A, +5 Vsb @ 0.1 A	UL/TUV/CB/CCC	100,000 hrs @ 25° C

Ordering Information

Model Name	Power Supply	Motherboard	Regulation
ACP-2010MB0-00XE	Without power supply, with ATX switch	Supports AIMB-7XX & AIMB-5XX series. Riser card is not included.	-
ACP-2010MB0-30ZE	1757000007G		CE
ACP-2000MB-00XE	Without power supply, with ATX switch	Only AIMB-740, 742, 744, 750 recommended. A 3-slot PCI riser card is included.	-
ACP-2000MB-30ZE	1757000007G		CE

Accessories

Part Number	Description
9680002285	Rear I/O bracket for low-profile add-on cards
96CD-52X-I-AS-B3	Black 5.25" 52X CD-ROM
96DVR-40X-I-AS-B	Black 5.25" 16X/40X/24X DVDRW-ROM
96FDD-144-TE-B	Black 3.5" FDD
SDVD-FDD-COMBOE	5.25" storage kit with slim 8X DVD, 24X CD-RW & standard 3.5" black FDD
SDVD-COMBOE	5.25" storage kit with slim 8X DVD, 24X CD-RW & a 3.5" drive bay for FDD or HDD
SCD-FDD-COMBOE	5.25" storage kit with slim 24X CD-ROM & standard 3.5" black FDD
SCD-COMBOE	5.25" storage kit with slim 24X CD-ROM & a 3.5" drive bay for FDD or HDD
1759200650	Fan 80 x 80 x 25 mm
1700060202	Y-cable for PS/2 mouse and keyboard

Riser Card Options

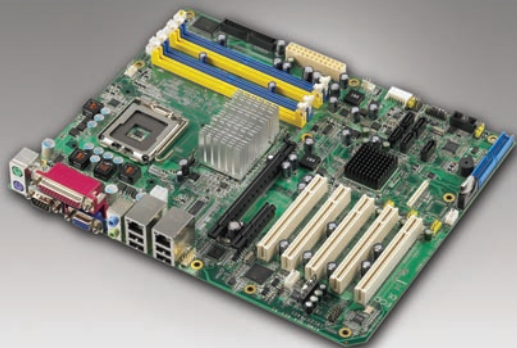
Model Name	Interface	Expansion Slot	Motherboard
AIMB-R430P-03A1E	PCIe x4	three PCI	AIMB-762/554
AIMB-RP30P-03A1E	PCI	three PCI	AIMB-750/744/742/740/560
AIMB-RH31P-12A1E	PCI+ PCIe x1	two PCI + one PCIe x1	AIMB-760

* The riser cards are specially designed to support all Advantech AIMB series motherboards except AIMB-562 & AIMB-542. There might be compatibility issues with other vendor's motherboards, so an optional rear I/O bracket for low-profile add-on cards is provided.

AIMB-764

**LGA 775 Core 2 Duo/Pentium® D/
Pentium 4/Celeron® D Processor-based
ATX with DDR2/PCIe/Single GbE LAN**

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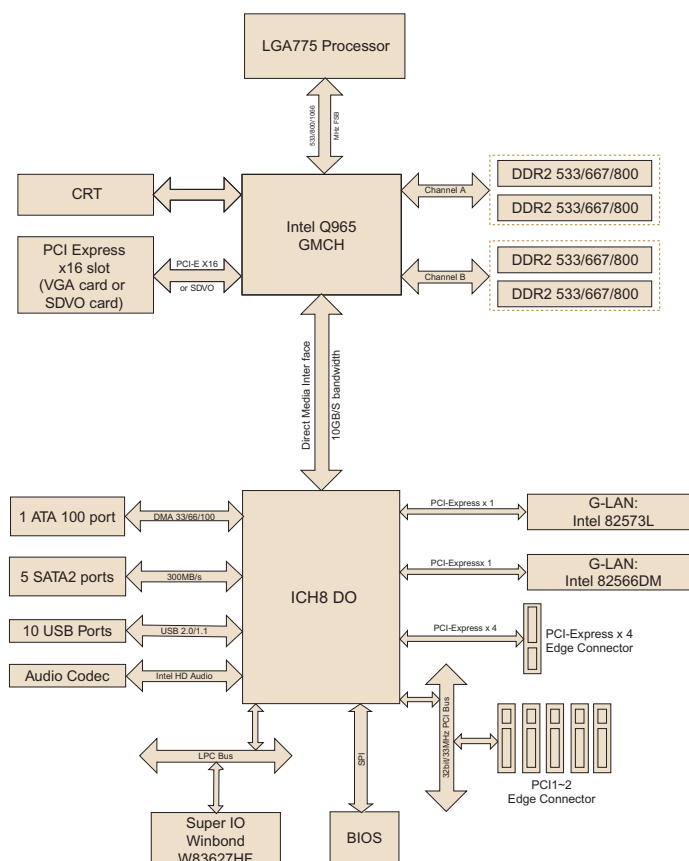
Features

- Intel® Q965 533/800/1066 MHz FSB
- Supports Intel Core 2 Duo
- Dual channel DDR2 533/667/800 SDRAM up to 8GB
- Chipset integrated VGA sharing 256MB system memory
- PCIe x16 slot for VGA card
- Five SATA II ports with 300 MB transfer rate
- supports SATA RAID 0, 1, 5 and 10.
- Supports Dual 10/100/1000Base-T Ethernet via dedicated PCIe x1 bus

Specifications

Processor System	CPU (65nm/ 90nm)	Intel® Core™ 2 Duo		Pentium® D		Pentium® 4		Celeron® D	
	Max. Speed	2.66 GHz		3.6 GHz (Dual-core)		3.8 GHz		3.06 GHz	
	L2 Cache	4 MB		2 MB x 2		2 MB/1 MB		512KB	
	Chipset	Intel Q965+ICH8D0							
	BIOS	Award 16Mbit SPI							
	Front Side Bus	533/800/1066 MHz							
Expansion Slot	PCIe x16	4.0 GB/s per direction, 1 slot							
	PCIe x4	1 GB/s per direction, 1 slot							
	PCI	32-bit/33MHz, 5 slots							
Memory	Technology	Dual channel DDR2 533/667/800 MHz							
	Max. Capacity	8 GB							
	Socket	240-pin DIMM x 4							
Graphic	Embedded	Chipset integrated VGA controller sharing 256 MB system memory							
	Add-on	PCIe x16 slot							
Ethernet	Interface	10/100/1000 Base-T							
	Controller	G-LAN: Intel 82573L, 82566DM							
	Connector	RJ45 with LED connector x 2							
SATA II	Max. Data Transfer Rate	300 MB/s							
	Channel	5							
EIDE	Mode	ATA 100/66/33							
	Channel	1 (Max. 1 devices)							
I/O Interface	VGA	1							
	USB	Max. 10 (USB 2.0 compliant), 4 ports on board							
	Audio	2 (MIC-In, Line-Out)							
	Serial	2 (COM2 for RS232/422/485)							
	Parallel	1 (SPP/EPP/ECP)							
	FDD	1							
	PS/2	2							
Watchdog Timer		None							
Power Requirement	Typical	Pentium 4 3.4 GHz, 1 GB SDRAM, 80 GB HDD							
		+12 V	+5 V	+3.3 V	5 Vsb	-5 V	-12 V		
		10.36 A	3.95 A	4.5 A	1.2 A	12 mA	36 mA		
Environment		Operating						Non-Operating	
	Temperature	0-55° C (32 ~ 131° F), depends on CPU's speed and cooler solution						-20 ~ 70° C (-4 ~ 158° F)	
Physical Characteristics	Dimensions (W x D)	304.8 x 244 mm (12" x 9.6")							

Block Diagram



Ordering Information

Part Number	VGA	Gigabit LAN
AIMB-764VG-00A1E	Yes	Single
AIMB-764G2-00A1E	Yes	Dual

**We strongly suggest to use only Advantech's certified LGA 775 CPU coolers to ensure board reliability under harsh environments

Bracket View



AIMB-764G2-00A1E



AIMB-764VG-00A1E

Riser Card

Part Number	Description
AIMB-R430P-03A1E	2U riser card with 3 PCI slot expansion
AIMB-R430I-03A1E	2U riser card with 3 PCIe x 1 slot expansion
AIMB-R4104-01A1E	1U riser card with 1 PCIe x 4 slot expansion

Packing List

Description	Quantity
FDD cable	x 1
IDE HDD cable	x 1
Serial ATA HDD data cable	x 2
Serial ATA HDD power cable	x 2
COM port cable kit	x 1
I/O port bracket	x 1
Startup manual	x 1
Utility CD	x 1

Accessories

Part Number	Description
1750001661	LGA 775 CPU Cooler for 2U chassis (supports Core 2 Duo, Pentium 4 max. 3.4 GHz, and Celeron D processors)
1750000334	LGA 775 CPU Cooler for 4U+ chassis (supports Core 2 Duo, Pentium 4 and Celeron D processor)
1700002314	USB cable with four ports, 30.5cm
1700002204	USB cable with dual ports, 27cm
1700003195	USB cable with dual ports, 17.5cm