

ACP-4000 Barebone PC

4U Rackmount chassis with AIMB ATX MB



Features

- ACP-4000 barebone PC supports the latest AMD Ryzen™ Embedded 9/7/5 Processors with B650 chipset
- Supports ATX motherboard with up to 7 slots
- Shock-resistant disk drive bay design holds up to three 5.25" and one 3.5" disk drives
- LED indicators and alarm notification for system fault detection
- Low noise PWM controlled system fans
- Built-in Intelligent System Module enables whole system fan control and remote manageability

Quiet Specifications

CE FCC

AM5	CPU	Ryzen 7 7700X	Ryzen 5 7600X	Ryzen 9 7900	Ryzen 7 7700	Ryzen 5 7600	Ryzen 9 PRO 7945	Ryzen 7 PRO 7745	Ryzen 5 PRO 7645	Ryzen 9 9900X	Ryzen 5 9600X	Ryzen 7 8700G	Ryzen 5 8600G
	P-core Base Frequency	4.5 GHz	4.7 GHz	3.7 GHz	3.8 GHz	3.8 GHz	3.7 GHz	3.8 GHz	3.8 GHz	4.4GHz	3.9GHz	4.2GHz	4.3GHz
	L3 Cache	32 MB	32 MB	64MB	32 MB	32 MB	64 MB	32 MB	32 MB	64MB	32MB	16MB	16MB
	Cores	8	6	12	8	6	12	8	6	12	6	8	6
	Processor Base Power	105W	105W	65W	65W	65W	65W	65W	65W	65W	120W	65W	65W
	Socket	LGA 1718											
	Chipset	B650											
	BIOS	AMI 256Mbit SPI Flash											
Drive Bay	5.25"	External			Internal								
	3.5"	3			-								
	2.5"	1*			-								
Cooling	Fan	2 (12 cm PWM / 82 CFM)											
	Filter	Yes											
Front IO	USB	USB 2.0 x 2											
	PS/2	1											
Rear	DB9	5 (COM cable is required)											
	DB25	1 (COM cable is required)											
Memory	Technology	Dual Channel DDR5 5200 Non-ECC UDIMM											
	Maximum Capacity	32GB per slot; 128 GB total											
	Socket	4 x 288-pin DIMM											
Display	Chipset	AMD Radeon™ Graphics											
	HDMI	1 (Resolution up to 3840 x 2160 @ 60Hz)											
	DP	1 (Resolution up to 3840 x 2160 @ 60Hz)											
	VGA	1 (Resolution up to 1920 x 1200 @ 60Hz)											
Ethernet	Controller	LAN1: Intel I226-V; LAN2: Intel I226-V											
	Interface	2 x RJ-45											
Storage	HDD/SSD	4 x SATA 3.0											
	NVMe M.2	1 (Gen4 PCIe x2 M-key 2280 type)											
	RAID	0, 1, 10											
MB I/O Interface	USB	6 (4 x USB 3.2 Gen 2, 2 x USB 3.2 Gen1)											
	Serial Port	6 (5 x RS-232, 1 x RS-232/422/485)											
	Audio	2 (Line-out, Mic-in)											
Expansion	PCIe x16	1 (Gen4 x16 link)											
	PCIe x8	-											
	PCIe x4	3 (2 x Gen4 x4 link, 1 x Gen4 x2 link)											
	PCIe x1	1 (Gen3 x1 link)											
	PCI	1											
LED and Switch	LED	Power, HDD, Temperature, Fan, and Power Voltage Status											
	Button	Power, Reset, Alarm Reset											
Power	Type	ATX/AT (Default ATX)											
	Input Voltage	100-240V~, 50-60Hz											

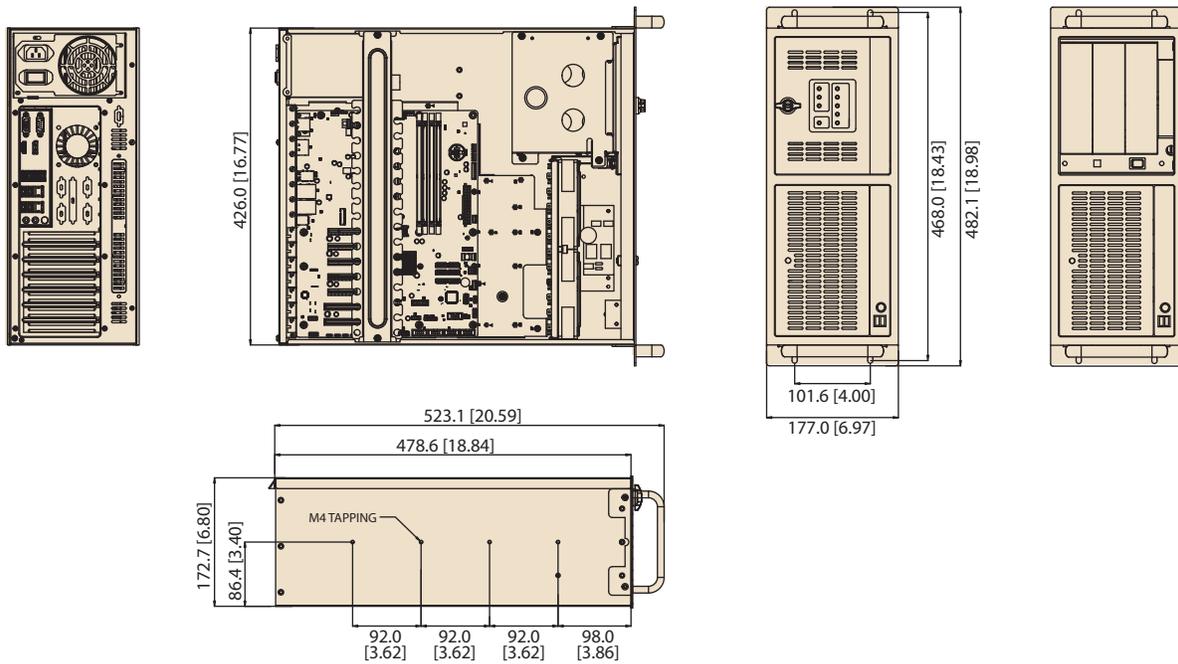
Specifications (Cont.)

Watchdog Timer	Output Interval	System reset Programmable 1 ~ 255 sec/min	
		Operating	Non-Operating
Environment	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 60 °C (-4 ~ 140 °F)
	Humidity	95% @ 40 °C, non-condensing	95% @ 60 °C, non-condensing
	Vibration	1 Grms	2 Grms
	Shock	10G, IEC60068-2-27, 11ms duration	
Mechanical	Dimensions (W x H x D)	482 x 177 x 479 mm (19" x 7" x 18.9")	
	Weight	16.3 kg (35.94 lbs)	
Certifications	EMC	CE/FCC Class A, CCC	
	Safety	CB/UL, CCC	
OS Support		Windows 11, Windows 10, Windows 10 IoT, Linux OS	

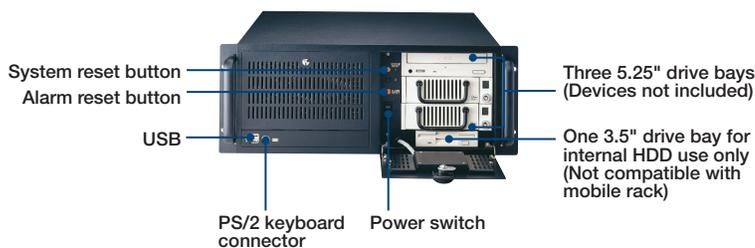
*allow one 2.5" HDD/SSD installed without convert bracket.

Dimensions

Unit: mm [inch]



Front View



Ordering Information

Part Number	Power Supply	Wattage	80 plus grade	MotherBoard	Chipset	Memory	USB 3.2 Gen 2	USB 3.2 Gen 1	USB 2.0	COM	M.2.	SATA 3.0	iBMC
ACP-4000MB-B685A1U	PS8-850ATX-GZ	850W	Gold	AIMB-723G2-00A1	B650	Non-ECC UDIMM DDR5 5200 up to 128 GB	4	4	4	6	1	4	No

Packing List

Part Number	Description	Qty.
ACP-4000	4U chassis with handle set	1
1750008561-01	system fan	2
1700030260-01	system fan cable (MB version)	2
2130006147S000	Door filter 97.6 x 36.6 x 5 mm	2
2130004803S000	Fan filter 115 x 195 x 5 mm	1
1960002462	key set	1
98R24000000	Handle set	1
	Screws/nuts and rubber for motherboard and devices	one bag
AIMB-723	ATX MB	1
2002061063	User manual	1
1700003194	SATA data cable	2
1960111153T001	I/O port bracket	1
2041072300	Startup manual	1

Optional Accessories

Part Number	Description
IPC-DT-5230E	Mobile rack for converting dual 5.25" drive bays to three 3.5" SATA HDD trays
PCA-TPMSPI-00A1U	TPM 2.0 Module
1700002204	2-port USB 2.0 cable w/ BKT(27 cm)
1700028292-01	2-port USB 3.0 cable w/ BKT(30 cm)
1970005786N001	CPU cooler for 4U chassis
1970005287T001	CPU cooler for wall-mount chassis (For CPU Base Power less or equal to 65W)
1701090401	Single COM port cable(40 cm)
1701092300	Dual COM port cable(28.5 cm)
1700022749-13	SATA power cable

MB I/O View



AIMB-723G2-00A1

Embedded OS

Part Number	Description
20706WX1HS0087	img W10 21HL AIMB-723 64b 21H2 ENU
20706WX1VS0087	img W10 21VL AIMB-723 64b 21H2 ENU
20706WLH1S0056	img W11 24HL AIMB-723 64b 24H2 ENU
20706WLV1S0056	img W11 24VL AIMB-723 64b 24H2 ENU
20706U22DS0047	img UbuntuD AIMB-723 64b 22.04 ENU