

ACP-4D00

Dual-Node 350mm Depth 4U Chassis for Half-Sized Slot SBC



Features

- Dual nodes, 350mm depth design for easy maintenance and space saving
- Supports PICMG 1.3 or PCI half-sized slot SBC with Core i7 CPU
- Supports 6-slot backplane, 3 available slots per node
- Supports 2 front USB 3.0 ports each node
- Supports 250W or 350W Flex ATX PSUs

Specifications (Each Node)

Drive Bay		Front-accessible	Internal
	3.5"	1	-
Cooling	Fan	1 (9 cm / 58 CFM)	
	Air Filter	Yes	
Front I/O Interface	USB 2.0	2	
	USB 3.0	2	
Miscellaneous	LED Indicators	Power On/Off, HDD Action, Fan Status, Temperature Status	
	Front Buttons	System Reset, Alarm Reset, Power Switch	
	Real Panel	2 COM/VGA, 1 PRT Semi-Piercing Openings	
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 Grms
	Shock	10 G(with 11 ms duration, half sine wave)	30 G(with 11 ms duration, half sine wave)
Physical Characteristics	Dimensions (W x H x D)	430 x 177 x 350 mm	
	Weight	15.0 kg	

Front and Back Views

Thumb Screws to Fix The Sub-System in the Cage



Dual Nodes Design

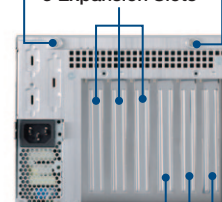
Easy Maintenance Fan



Front LEDs

Thumb Screws to Fix The Top Lid

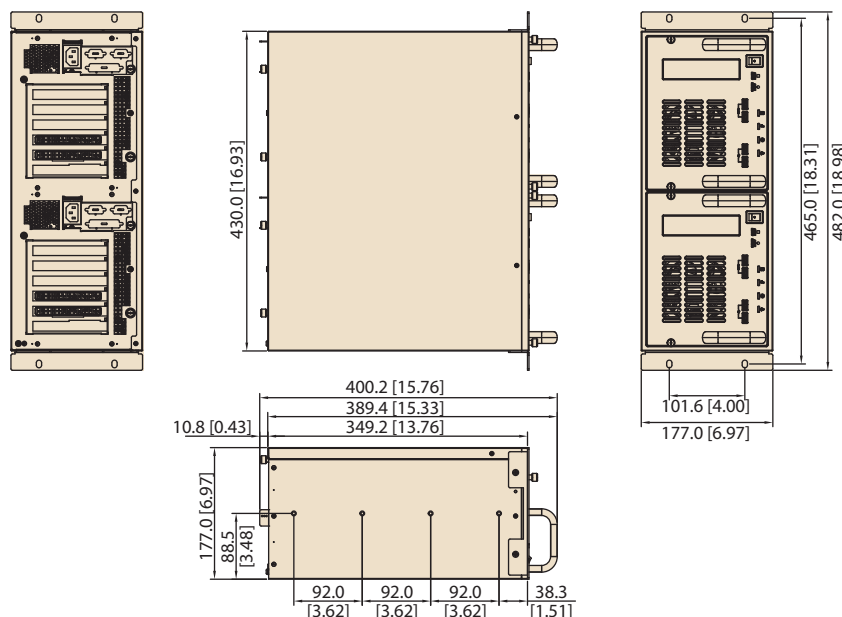
3 Expansion Slots



Slots Occupied by CPU Card and CPU Cooler

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Description
ACP-4D00BP-00XE	4U dual node chassis without BP, power supply

Power Supply Options

Part Number	80 Plus Grade	Specifications	
		Wattage	Input
PS8-250FATX-XE	80 Plus Bronze	250W	AC 100 ~ 240 V (full range)
PS8-350FATX-XE	80 Plus Bronze	350W	AC 100 ~ 240 V (full range)

Supported CPU Cards

Part Number	Description
PCE-3028G2-00A1E	PICMG 1.3 half-sized SBC w/ 4th Gen. Core i CPU, front USB 3.0
PCE-4128G2-00A1E	PICMG 1.3 half-sized SBC w/ Xeon E3-12XX v3 CPU, front USB 3.0

* Strongly recommend Advantech CPU cards listed above to minimizing risk of compatibility issue. If the CPU card has no USB 3.0 on-board box header, the front USB 3.0 ports can NOT be activated.

Supported Backplanes

Part Number	CPU Card Slot	PCIe Slot	PCI
PCE-3B03-00A1E	PICMG 1.3	1 PCIe x 16 1 PCIe x 4	-
PCE-3B06-00A1E	PICMG 1.3	1 PCIe x 16 4 PCIe x 1	-
PCE-3B06-03A1E	PICMG 1.3	1 PCIe x 16 1 PCIe x 1	3
PCA-6105P5-0B2E	PCI	-	4

Optional Accessories

Part Number	Description
1960053207N001	1.5U CPU cooler for 3 available expansion slots
IDT-3120E	Drive bay module converting 1 3.5" to 2 hot-swap 2.5"
989K008734	Bracket to fix two 2.5" devices in a 3.5" drive bay
9680006905	Slide rail for ACP-4D00

* The 1.5U CPU cooler 1960053207N001 is for LGA 1155/1150 socket CPUs, it is thin enough to leave 3 available expansion slots on the backplane.