

ACP-4000VS

Industrial 4U Hybrid Intelligent Video System



Features

- Industrial grade intelligent surveillance system with flexible hybrid system structure
- Free bundled VMS/CMS and SDK for AP software integration
- Free bundled and optional intelligent video analysis (IVA) software
- Supports analog/digital/IP Cameras with Hybrid structure
- 3 TB HDD for 16-ch of recording for 15 Days (D1@240FPS)

WebAccess/IVS

CE FCC

Introduction

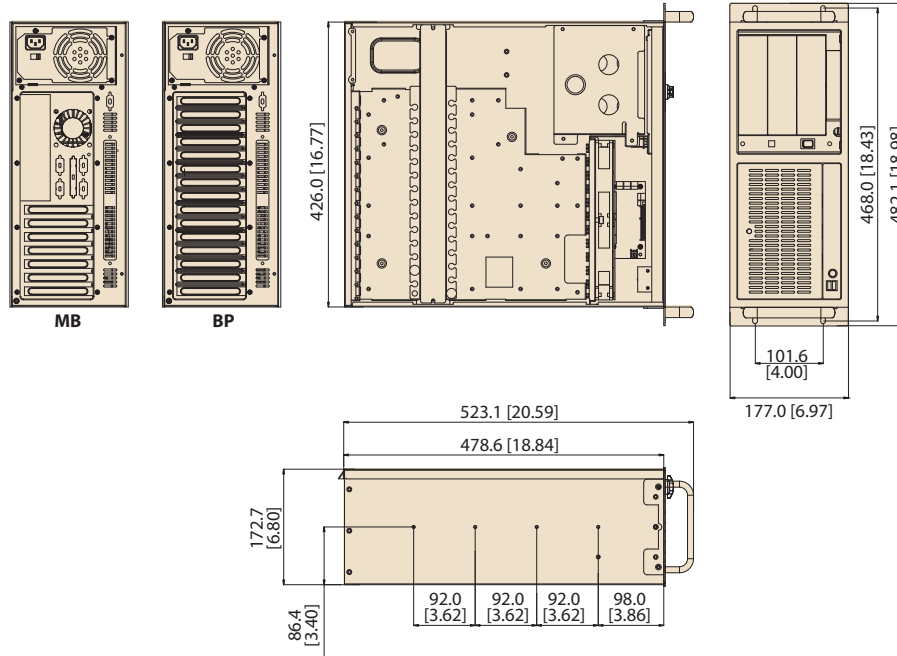
ACP-4000VS is an industrial hybrid intelligent video system. It provides great flexibility to support both analog and IP cameras with Advantech intelligent surveillance software, WebAccess/IVS. The embedded OS provides excellent reliability and protection against virus attack. Support analog/digital/IP Cameras with Hybrid structure preview and playback with motion detection, PTZ control, and HDD video backup. It also supports TCP/IP for preview and playback with full software functions via Internet/Intranet. ACP-4000VS is also pre-installed with several free bundled intelligent video analysis software to make your surveillance system more intelligent. Advantech's Quality Assurance, and Configure To Order Services, provide the best reliability for 24/7 operations. The advanced thermal design, and easy to operate user interface make the ACP-4000VS the ideal PC based surveillance solution for various applications.

Specifications

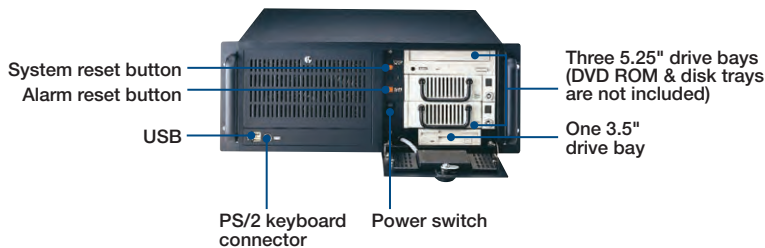
System	CPU	Core i7-3770S	
	Cache Memory	8MB	
	System Chipset	Intel Q67	
	Memory	4GB DDRIII (Max. Capacity 32GB)	
Storage	SSD Driver	Build-in 32G 2.5" SSD	
	HDD Driver	1 x 3.5" (3TB) SATA HDD (3 Drive Bay)	
Graphic	Chipset Integrated	Integrated Intel HD Graphics	
Analog Camera Support	Recording Standard	NTSC/PAL	
	Video Encoding	H.264	
	Maximum Frame Rate	30/25fps per channel	
	Analog Camera Inputs	Up to 32 channels D1/480FPS or 16 channels 1080p/160FPS. HW encoder capture card selected	
IP Camera Support	Recording Resolutions	Up to 3 Megapixel	
	Video Encoding	H.264	
	Maximum Frame Rate	30fps per channel	
	Camera Inputs	Up to 32 channels D1/480FPS or 16 channels Full HD 1080P/160FPS IP cameras	
Inputs and Outputs	Display	VGA+DVI-D	
	USB	2 x USB 2.0 + 2 x USB 3.0	
	Network	2 x 10/100/1000 Mbps LAN Ports	
	Serial	2 x RS232	
	PS/2	2 (1 x keyboard and 1 x mouse)	
Environmental		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
Hardware and Physical	Power	AC 400W, ATX 100V _{AC} ~ 240 V _{AC}	
	Storage	Up to 3 3TB 3.5" SATA HDD	
	Dimension (W x H x D)	482 x 177 x 479 mm (19" x 7" x 18.9")	
Third Party Integration	SDK Available for 3 rd Party software integration	Supported	

Dimensions

Unit: mm [inch]



Front View



Ordering Information

Part Number	Description
ACP-4000VS-00A1E	Industrial 4U Hybrid Intelligent Video System: 3T_HDD/4G_RAM/32G_mSATA/Win7E X64/IVA_4CH
ACP-4000VS-16A1E	Industrial 4U Hybrid Intelligent Video System: 3T_HDD/4G_RAM/32G_mSATA/Win7E X64/IVA_16CH
ACP-4000VB-00A1E	Barebone W/O HDD / RAM / SSD / OS

Optional Accessories

Part Number	Description
DVP-7637E	4ch video capture card for analog cameras
DVP-7640E	8ch video capture card for analog cameras
DVP-7650E	16ch video capture card for analog cameras

Intelligent Video and IoT Sensors	1
Intelligent Transportation Platforms	2
Intelligent Inspection Systems	3
Modular IPCs	4
Server-grade IPCs	5
Industrial Storages	6
Video Wall Controllers	7
GPU Servers	8
Industrial Motherboards	9
Slot SBC & Passive Backplanes	10
CompactPCI Platforms	11
Industrial Chassis	12
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ACP-1010

1U Rackmount Chassis for Full-size SHB/SBC or ATX/MicroATX Motherboard



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Features

- Support full-size SHB/SBC or ATX/MicroATX motherboards
- LED indicators for Power, HDD, Temperature, Fan, LAN1 and LAN2
- Support up to 2 expansion slots in BP version, and 1 expansion slot via riser card in MB version
- Support both 250W/350W Flex ATX/PFC power supply

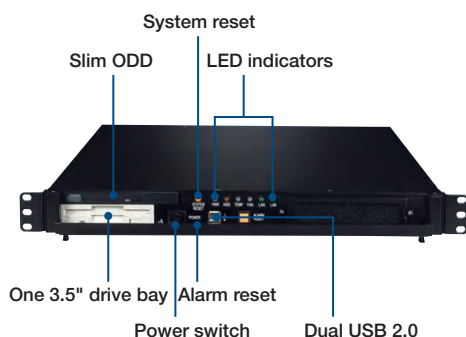
Specifications

Driver bay	Slim Optical Disk Drive	External	Internal
		1	-
	3.5"	1	1*
	2.5"	-	2*
Cooling	Fan	BP: 4 (4 cm/24 CFM x 3 + 15 CFM x 1) MB: 2 (4 cm/24 CFM each)	
Front I/O Interface	USB 2.0	2	
Miscellaneous	Notification LEDs	System: Power, HDD, Temperature, Fan, LAN1 and LAN2	
	Control	Power switch, system reset & alarm reset button	
	Rear panel	One 9-pin D-Sub opening	
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)	0.5 Grms	2 Grms
	Shock	10 G (with 11 ms duration, half sine wave)	30 G
Physical Characteristics	Dimensions (W x H x D)	480 x 44 x 497 mm (19" x 1.7" x 19.6")	
	Weight	8 kg (17.6 lb)	

* ACP-1010MB version can choose to be 1x3.5" or 2x2.5" as internal drive bay.

* ACP-1010 support up to CPU 65W under 35° C for thermal concern.

Front View



Back View



ACP-1010BP

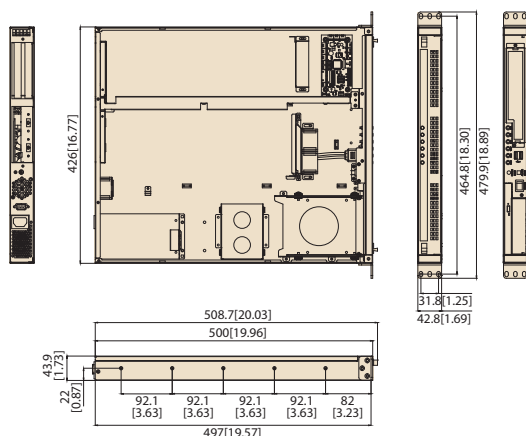


ACP-1010MB

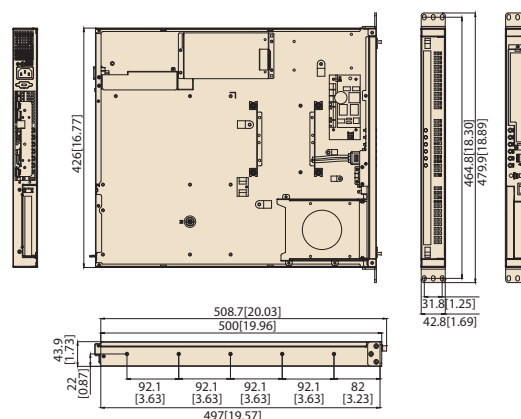
Dimensions

Unit: mm [inch]

ACP-1010BP



ACP-1010MB



Ordering Information

Part Number	Description
Backplane Version	
ACP-1010BP-00BE	BP version W/O PSU
Motherboard Version	
ACP-1010MB-00BE	MB version W/O PSU

*ACP-1010MB does not support AIMB-763, 542, 562 and 564 because the height of the audio connector is over 1U.

Power Supply Options

(For detailed power supply specs, please refer to Chapter 13)

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

Spare Parts

Part Name	Description
2130007889S000	Filter 170 x 32 x 5 mm for ACP-1010
9662132020E	Black mobile HDD tray

Optional Accessories

Part Name	Description
96CB-SATAPOWER-6P1	SATA power wire 6-pin to big 4-pin (for slim ODD)
I/O shield	
1960055954T000	I/O shield for AIMB-701/781/782/581
1960048353T000	I/O shield for AIMB-767/769/780/566/580
1960063225N001	I/O bracket for ASMB-584
19Z0000406T000	I/O shield for ASMB-781/782
1960048321T010	I/O shield for ASMB-822i
19Z0000747T000	I/O shield for ASMB-784
19Z0001023T000	I/O shield for ASMB-584

Backplane Options

Part Name	Slot	CPU Card
PICMG 1.3		
PCE-5B03V-01A1E	One CPU, one PCIe x16, one PCI (32-bit/33MHz)	PCE-5000 Series
PCE-5B03V-00A1E	One CPU, one PCIe x16, one PCIe x4	
PCE-7B03V-01A1E	One CPU, one PCIe x8, one PCI	PCE-7000 Series
PCE-7B03V-00A1E	One CPU, two PCIe x8	
PICMG 1.0		
989K610302E (PCA-6103P2V-0A2E)	One CPU, 2 PCI (320bit/33MHz)	PICMG 1.0 Full-Size SBC

Intelligent Video and IoT Sensors 1

Intelligent Transportation Platforms 2

Intelligent Inspection Systems 3

Modular IPCs 4

Server-grade IPCs 5

Industrial Storages 6

Video Wall Controllers 7

GPU Servers 8

Industrial Motherboards 9

Slot SBC & Passive Backplanes 10

CompactPCI Platforms 11

Industrial Chassis 12

Industrial Computer Peripherals 13

Industrial Ethernet Solutions 14

ACP-2000/ IPC-602

2U 6-Slot Rackmount Chassis with Front USB and PS/2 Interfaces



Features

- 2U rackmount chassis supports up to 6 cards
- Butterfly backplane design
- Front-accessible USB and PS/2 connectors
- 250W / 300W AC ATX and DC power supply options
- Two 40 CFM cooling fans with air filter
- Lockable front door prevents unauthorized access

Features with ACP-2000 only:

- System alarm notification by front LED indicators
- Built-in Intelligent System Module enabling whole system fan control and remote manageability

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Specifications

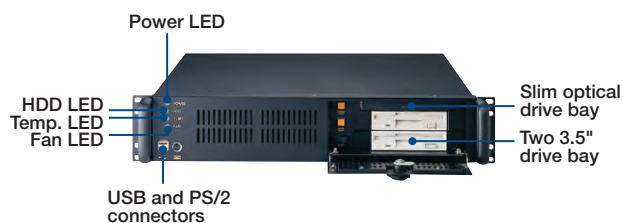
		External	Internal
Drive Bay	Slim Optical Disk Drive	1/-	-
	3.5"	2/1	-/1
	5.25"	-/1	-
Cooling	Fan	2 (8 cm / 47 CFM each) / 2 (8 cm / 40 CFM each)	
	Air Filter	Yes	
Front I/O Interface	USB	2	
	PS/2	1	
Miscellaneous	LED Indicators	Power and HDD activity; fan and temperature for ACP-2000 only	
	Rear Panel	One 9-pin D-Sub opening	
Intelligent System Module Remote Monitoring	CPU/System fan speed , CPU/System temperature , motherboard voltage (Only selected Advantech MBs/CPU cards with SUSIAccess installed can fully enable these functions, check with Advantech local rep. for detailed information.) (This feature only enabled in ACP-2000)		
Environment	Temperature	Operating 0 ~ 40° C (32 ~ 104° F)	Non-Operating -20 ~ 60° C (-4 ~ 140° F)
	Humidity	10 ~ 85% @ 40° C, non-condensing	10 ~ 95% @ 40° C, non-condensing
	Vibration (5 ~ 500 Hz)	0.5 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	30 G
	Dimensions (W x H x D)	482 x 88 x 451 mm (19" x 3.5" x 17.8")	
Physical Characteristics	Weight	11.5 ka (25.3 lb) / 11.3 ka (24.9 lb)	

Front View

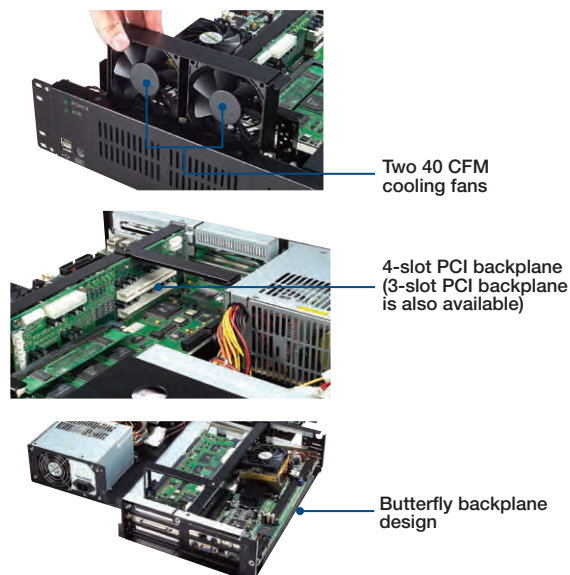
IPC-602



ACP-2000



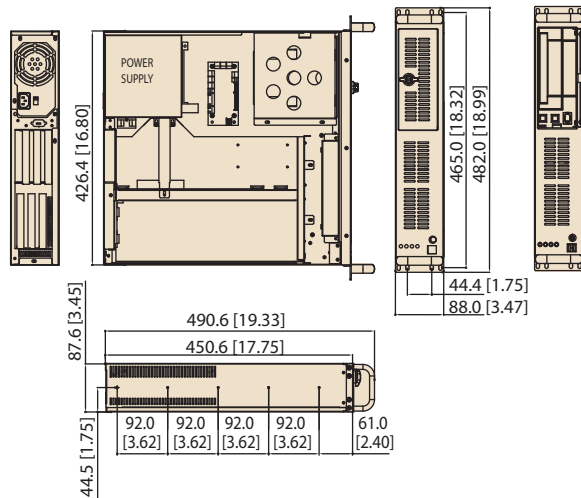
Inside View



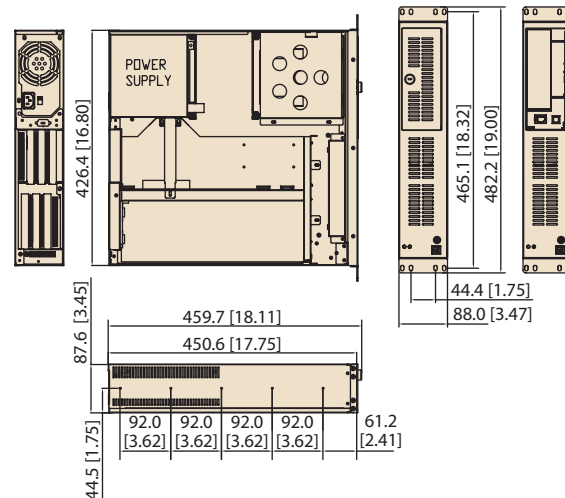
Dimensions

Unit: mm [inch]

ACP-2000



IPC-602



Ordering Information

Part Number	Power Supply	Backplane
PICMG 1.0		
ACP-2000P3-00BE	Without power supply, with ATX switch	989K610622E (PCA-6106P3V)
ACP-2000P4-00BE	Without power supply, with ATX switch	989K610512E (PCA-6105P4V)
PICMG 1.3		
ACP-2000EBP-00BE	Without power supply, with ATX switch	-
IPC-602EBP-00XBE	Without power supply, with ATX switch	-

Power Supply Options

Part Number	80 Plus Grade	Wattage	Type	Input
PS8-250FATX-XE (IPC-602 only)	Bronze	250W	Single	AC 100 ~ 240 V (full range)
PS8-300ATX-ZBE	Bronze	300W	Single	AC 100 ~ 240 V (full range)
PS8-400ATX-ZE	Bronze	400W	Single	AC 100 ~ 240 V (full range)
PS-300ATX-DC48E	-	300W	Single	DC -48 V
RPS-300ATX-ZE (ACP-2000 only)	-	300W	(1+1) Redundant	AC 100 ~ 240 V (full range)

Optional Accessories

Part Number	Description
1950000868T00B	P3 card cage
1950000869N002	P4 card cage
96CB-SATAPOWER-6P1	SATA power wire 6-pin to big 4-pin (for slim ODD)
IPC-DT-3120E	Mobile rack for converting a 3.5" drive bay to dual 2.5" SATA HDD trays

Spare Parts

Part Number	Description
2130006189S000	Filter behind the door 156 x 45 x 5 mm
1990001949	Filter in the front of the fans 165 x 58 mm

Intelligent Video and IoT Sensors	1
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Server-grade IPCs	5
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GPU Servers	8
Industrial Motherboards	9
Slot SBC & Passive Backplanes	10
CompactPCI Platforms	11
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Industrial Computer Peripherals	13
Industrial Ethernet Solutions	14

ACP-2010/2320

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



Features

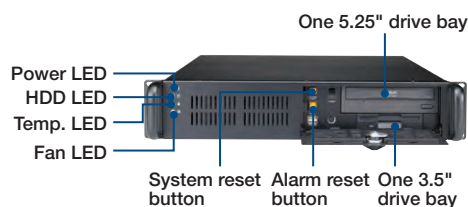
- LED indicators and audible alarm notification for system fault detection
- ACP-2010: One 5.25" and three 3.5 Shock-resistant drive bays
- ACP-2320: One Slim optical disk drive, two internal 3.5" drives and dual how-swap SAS/SATA HDD trays
- Various riser card options to support three full-size PCI or PCIe cards for expansion
- Supports 300W / 400W ATX PFC power supply
- Reusable and washable air filters
- Built-in Intelligent System Module enabling whole system fan control and remote manageability

CE FCC

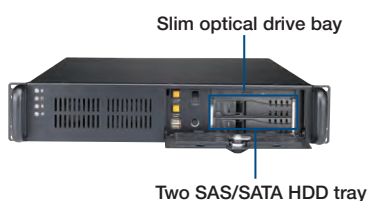
Specifications

		External	Internal
Drive Bay	Slim Optical Disk Drive	- / 1	-
	5.25"	1 / 0	-
	3.5"	1 / 2	2 / 2
	Hot Swap	- / 2 (mobile trays compatible with 2.5" HDD/SSD)	
Cooling	Fan	2 (8 cm /47 CFM each) / 2 (8 cm /47 CFM each) + 1 (6 cm /28 CFM) for SAS/SATA storage unit	
	Air Filters	Yes	
	Smart Fan	System fan speed referring to chassis thermal sensor, or CPU temperature (Available with selected Advantech MBs/CPU cards)	
Front I/O Interface	USB 2.0	2	
	PS/2	1	
Miscellaneous	LED Indicators	Power, HDD, temperature, fan	
	Rear Panel	Two 9-pin D-Sub openings	
Intelligent System Module Remote Monitoring	CPU/System fan speed , CPU/System temperature , motherboard voltage (Only selected Advantech MBs/CPU cards with SUSIAccess installed can fully enable these functions, check with Advantech local rep. for detailed information.)		
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
Physical Characteristics	Dimensions (W x H x D)	482 x 88 x 480 mm (19" x 3.46" x 18.9")	
	Weight	10.7 kg (23.5 lb) / 11.7 kg (25.7 lb)	

Front View

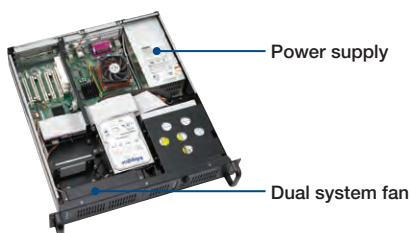


ACP-2010

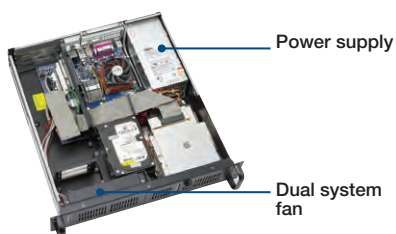


ACP-2320

Inside View



ACP-2010



ACP-2320

Rear View



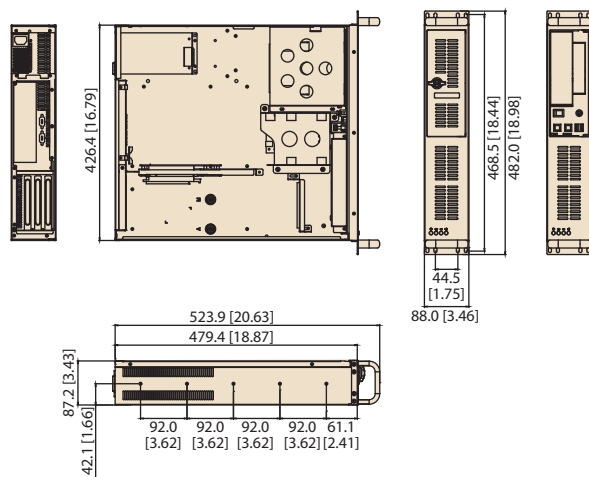
Rear I/O bracket for low profile add-on cards



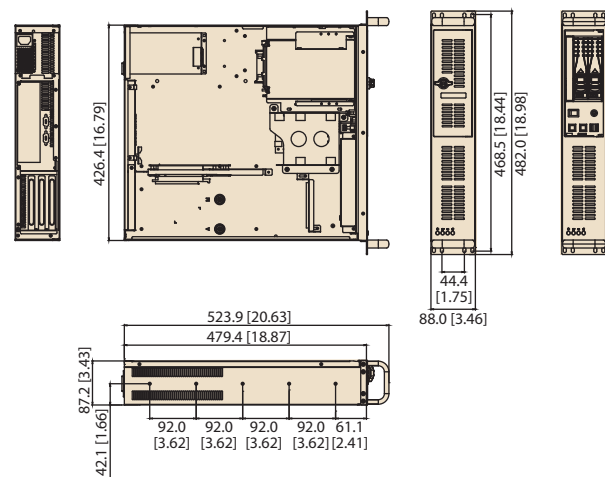
Dimensions

Unit: mm [inch]

ACP-2010



ACP-2320



Ordering Information

Part Number	Power Supply
ACP-2010MB-00CE	Without power supply
ACP-2320MB-00CE	Without power supply

Power Supply Options

Part Number	80 Plus Grade	Wattage	Type	Input
PS8-250FATX-XE	Bronze	250W	Single	AC 100 ~ 240 V (full range)
PS8-350FATX-XE	Bronze	350W	Single	AC 100 ~ 240 V (full range)
96PS-A400WFX-1	Gold	400W	Single	AC 100 ~ 240 V (full range)
96PSR-A250W2U	non-80 Plus	250W	(1+1) Redundant	AC 100 ~ 240 V (full range)

Optional Accessories

Part Number	Description
1950014302N001	Special bracket for riser card AIMB-RP3P8-12A1E
96CB-SATAPOWER-6P1	SATA power wire 6-pin to big 4-pin (for slim ODD)
IPC-DT-3120E	Mobile rack for converting a 3.5" drive bay to dual 2.5" SATA HDD trays
Rear I/O panel kit for low-profile add-on cards	
1939000361	Screw (should purchase 7 pcs)
1960034816N000	I/O bracket (should purchase 7 pcs)
1960019475T201	Rear panel for low-profile

Spare Parts

Part Number	Description
9662132020E	Black mobile HDD tray
1990007986S000	Filter behind the door 156 x 45 x 5 mm
1990001949	Filter in the front of the fans 168 x 58 mm

Intelligent Video and IoT Sensors	1
Intelligent Transportation Platforms	2
Intelligent Inspection Systems	3
Modular IPCs	4
Server-grade IPCs	5
Industrial Storages	6
Video Wall Controllers	7
GPU Servers	8
Industrial Motherboards	9
Slot SBC & Passive Backplanes	10
CompactPCI Platforms	11
Industrial Chassis	12
Industrial Computer Peripherals	13
Industrial Ethernet Solutions	14

ACP-4020

348mm Depth 4U Rackmount Chassis for Half-sized SBC or ATX Motherboard



Features

- Compact 4U rackmount chassis, with only 348mm depth
- Supports 14-slot BP for half-size SBC or ATX/MicroATX motherboard
- Shock-resistant disk drive bay holds one internal 2.5", and two front-accessible 3.5" drives, plus one slim optical disk drive
- Dual front USB 3.0 ports
- Front-accessible system fan without opening top cover for easy maintenance
- LED indicators and alarm notification for system fault detection
- Smart fan speed control
- Built-in Intelligent System Module enabling whole system fan control and remote manageability

Quiet

CE FCC

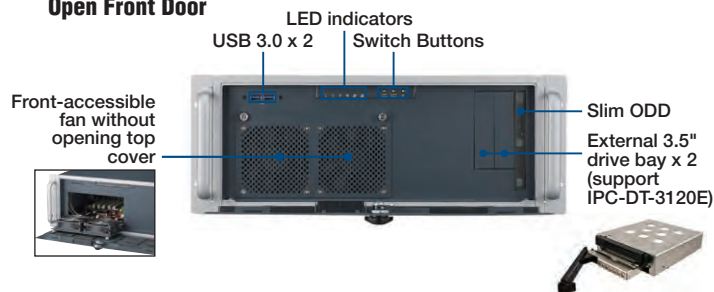
Specifications

		External	Internal
Drive Bay	Slim ODD	1	-
	3.5"	2	-
	2.5"	-	1
Cooling	Fan	2 (9 cm / 53 CFM)	
	Air Filter	Yes	
Front I/O Interface	USB 3.0*	2	
Miscellaneous	LED Indicators	Power, HDD, temperature, fan, LAN1, and LAN2	
	Rear Panel	Backplane version: One 9-pin D-Sub opening Motherboard version: Five 9-pin D-Sub and one 68-pin SCSI openings	
Intelligent System Module Remote Monitoring	CPU/System fan speed , CPU/System temperature , motherboard voltage (Only selected Advantech MBs/CPU cards with SUSIAccess installed can fully enable these functions, check with Advantech local rep. for detailed information.)		
Environment		Operating	Non-Operating
	Temperature	0 ~ 40° C (32 ~ 104° F)	-40 ~ 70° C (-40 ~ 156° F)
	Humidity	10 ~ 95% @ 40° C, non-condensing	10 ~ 95% @ 60° C, non-condensing
	Vibration (5 ~ 500 Hz)	1 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	
Physical Characteristics	Dimensions (W x H x D)	482 x 177 x 348 mm (19" x 7.0" x 13.7")	
	Weight	8.5 kg (18.7 lb)	

* The USB ports do not operate if a main board without on-board USB 3.0 internal box header is installed.

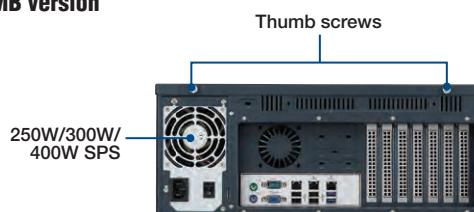
Front View

Open Front Door

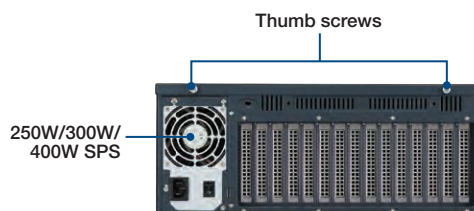


Rear View

MB version



BP version

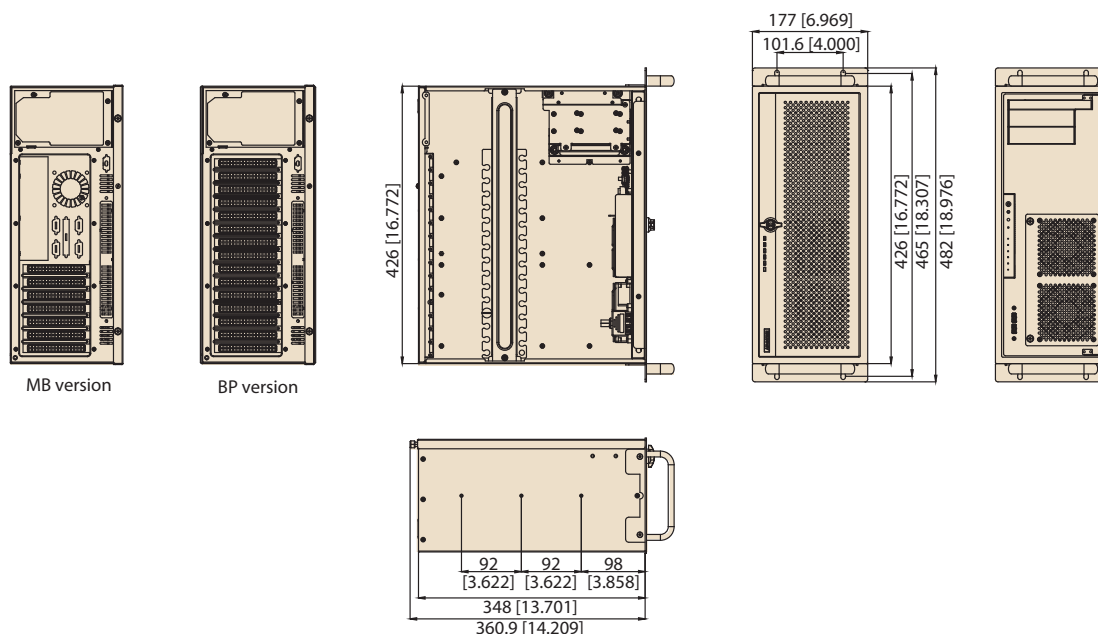


Inside View



Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Description
ACP-4020BP-00XE	Backplane version without power supply
ACP-4020MB-00XE	Motherboard version without power supply

Power Supply Options

Part Number	80 Plus Grade	Wattage	Type	Input
PS8-250ATX-ZE	Bronze	250W	Single	AC 100 ~ 240 V (full range)
PS8-300ATX-ZBE	Bronze	300W	Single	AC 100 ~ 240 V (full range)
PS8-400ZTX-ZE	Bronze	400W	Single	AC 100 ~ 240 V (full range)

Optional Accessories

Part Number	Description
IPC-DT-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-4020
96CB-SATAPOWER-6P1	SATA power wire 6-pin to big 4-pin (for slim ODD)

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

Supported Backplanes

Part Number	Description
PCE-3B12-08	PICMG 1.3 BP with 1 PCIe x 16, 2 PCIe x 1, 8 PCI slots (for PCE-3028 & PCE-4128)
PCE-4B13-08	PICMG 1.3 BP with 2 PCIe x 8, 2 PCIe x 1, 8 PCI slots (only for PCE-4128)

Spare Parts

Part Number	Description
1990021256T000	Door filter

Intelligent Video and IoT Sensors	1
Intelligent Transportation Platforms	2
Intelligent Inspection Systems	3
Modular IPCs	4
Server-grade IPCs	5
Industrial Storages	6
Video Wall Controllers	7
GPU Servers	8
Industrial Motherboards	9
Slot SBC & Passive Backplanes	10
CompactPCI Platforms	11
Industrial Chassis	12
Industrial Computer Peripherals	13
Industrial Ethernet Solutions	14

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



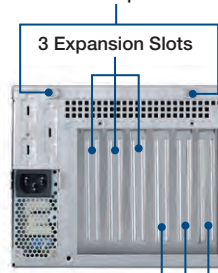
Dual Nodes Design

Easy Maintenance Fan



Front LEDs

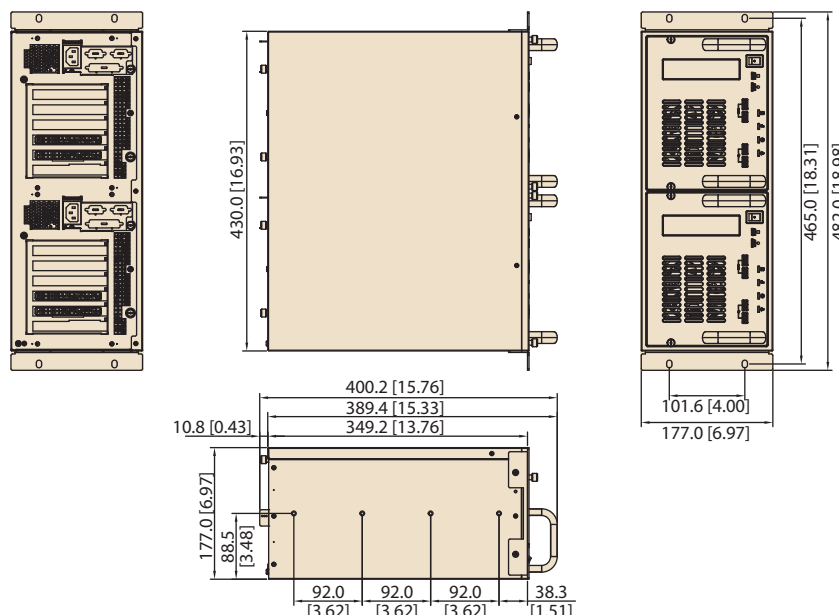
Thumb Screws to Fix The Top Lid



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)

Optional Accessories

Part Number	Description
1960053207N001	1.5U CPU cooler for 3 available expansion slots
IPC-DT-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.

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

Intelligent Video and IoT Sensors	1
Intelligent Transportation Platforms	2
Intelligent Inspection Systems	3
Modular IPCs	4
Server-grade IPCs	5
Industrial Storages	6
Video Wall Controllers	7
GPU Servers	8
Industrial Motherboards	9
Slot SBC & Passive Backplanes	10
CompactPCI Platforms	11
Industrial Chassis	12
Industrial Computer Peripherals	13
Industrial Ethernet Solutions	14

ACP-4000

Quiet 4U Rackmount Chassis with Visual & Audible Alarm Notification



Features

- Supports either an ATX motherboard or PICMG backplane with up to 15 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 system fans
- Built-in Intelligent System Module enables whole system fan control and remote manageability

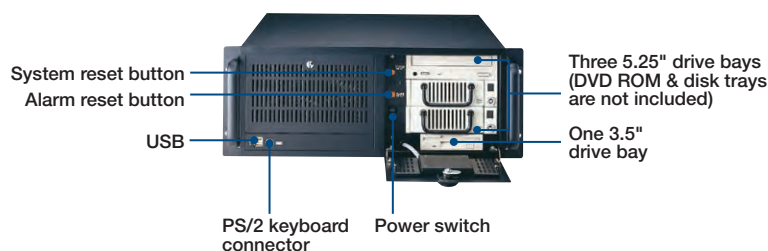
Quiet

CE FCC

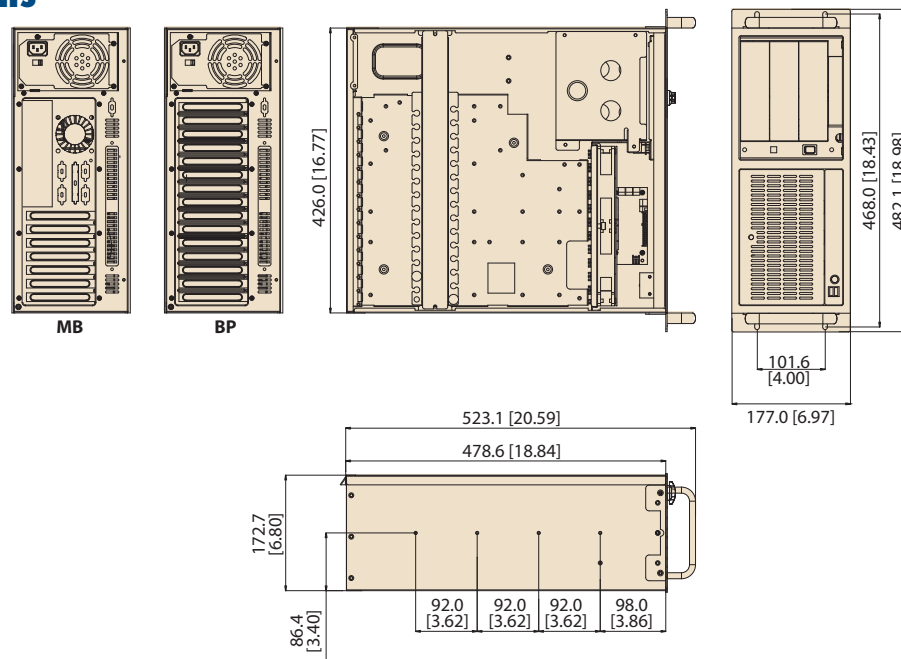
Specifications

Drive Bay	3.5"	External
	5.25"	1
Cooling	Fan	2 (12 cm / 85 CFM each)
	Air Filter	Yes
Front I/O Interface	USB 2.0	2
	PS/2	1
Miscellaneous	LED Indicators	Power, HDD, temperature, fan, and power voltage status
	Rear Panel	Backplane version: One 9-pin D-Sub opening Motherboard version: Five 9-pin D-Sub & one 68-pin SCSI openings
Intelligent System Module Remote Monitoring	CPU/System fan speed , CPU/System temperature , motherboard voltage (Only selected Advantech MBs/CPU cards with SUSIAccess installed can fully enable these functions, check with Advantech local rep. for detailed information.)	
Environment		Operating
	Temperature	0 ~ 40° C (32 ~ 104° F)
	Humidity	10 ~ 85% @ 40° C, non-condensing
	Vibration (5 ~ 500 Hz)	1 Grms
	Shock	10 G (with 11 ms duration, half sine wave)
Physical Characteristics	Dimensions (W x H x D)	482 x 177 x 479 mm (19" x 7" x 18.9")
	Weight	15.2 kg (33.5 lb)

Front View



Dimensions



Ordering Information

Part Number	Description
Backplane Version	
ACP-4000BP-00CE	Without power supply, with ATX switch
ACP-4000BP-30CE	Bundled with 96PS-A300WPS2
ACP-4000BP-40CE	Bundled with 96PS-A400WPS2
Motherboard Version	
ACP-4000MB-00CE	Without power supply, with ATX switch
ACP-4000MB-30CE	Bundled with 96PS-A300WPS2
ACP-4000MB-40CE	Bundled with 96PS-A400WPS2

Power Supply Options

(For detailed power supply specs, please refer to Chapter 13)

Part Number	80 Plus Grade	Wattage	Type	Input
PS8-300ATX-ZBE	Bronze	300W	Single	AC 100 ~ 240 V (full range)
PS8-400ATX-ZE	Bronze	400W	Single	AC 100 ~ 240 V (full range)
PS8-500ATX-ZE	Bronze	500W	Single	AC 100 ~ 240 V (full range)
RPS8-350ATX-XE	Gold	350W	1+1 Redundant	AC 100 ~ 240 V (full range)
RPS8-500ATX-XE	Bronze	500W	1+1 Redundant	AC 100 ~ 240 V (full range)
PS-300ATX-DC48E	N/A	300W	Single	DC -48 V

Optional Accessories

Part Number	Description
1700006915	ATX 24P/20P + 4P + 8P 60cm cable (connecting from power supply to alarm board)
1700006917	Two Mini DIN (connect to MB) / 6P (connect to front I/O board) PS2 KB/Mouse cable
IPC-DT-5230E	Mobile rack for converting dual 5.25" drive bays to three 3.5" SAS/SATA HDD trays

* If users use AIMB-763 or 3rd party motherboard, they need to purchase 1700006915 or 1700006916 for the front voltage LEDs to function normally. And they also need to purchase 1700006917 to make front PS/2 function normally.

* If users use ASMB-820 or ASMB-822, they need to purchase 1700006915 for the front voltage LEDs to function normally.

Spare Parts

Part Number	Description
2130006147S000	Door filter 97.6 x 36.6 x 5 mm
2130004803S000	Fan filter 115 x 195 x 5 mm

Intelligent Video and IoT Sensors **1**

Intelligent Transportation Platforms **2**

Intelligent Inspection Systems **3**

Modular IPCs **4**

Server-grade IPCs **5**

Industrial Storages **6**

Video Wall Controllers **7**

GPU Servers **8**

Industrial Motherboards **9**

Slot SBC & Passive Backplanes **10**

CompactPCI Platforms **11**

Industrial Chassis **12**

Industrial Computer Peripherals **13**

Industrial Ethernet Solutions **14**

ACP-4010

Quiet 4U Rackmount Chassis for ATX/CEB/EEB Motherboard or Full-size SHB/SBC with Dual System Support



Features

- Supports either an ATX/CEB/EEB single/dual processors motherboard or a PICMG backplane with up to 15 slots
- Supports one or two systems in a single chassis
- Shock-resistant disk drive bay design holds up to two 5.25" and two 3.5" disk drives
- LED indicators and alarm notification for system fault detection
- Low noise system fans
- Built-in Intelligent System Module enables whole system fan control and remote manageability

Quiet

CE FCC

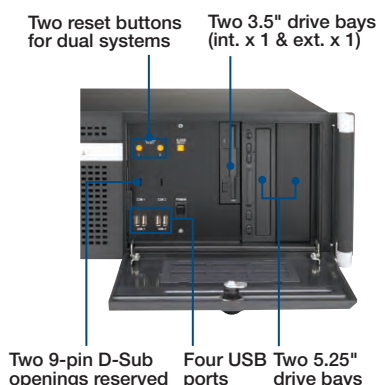
Specifications

Drive Bay		External	Internal
	5.25"	2	-
Cooling	3.5"	1	1
	Fan	2 (12 cm /85 CFM each)	
Front I/O Interface	Air Filter	Yes	
	USB 2.0	4	
Miscellaneous	9-pin D-Sub	2 (Reserved)	
	LED Indicators	Power, HDD, temperature, fan, LAN1, and LAN2	
Intelligent System Module Remote Monitoring	Rear Panel	Backplane version: One 9-pin D-Sub opening Motherboard version: Five 9-pin D-Sub and one 68-pin SCSI openings	
	CPU/System fan speed , CPU/System temperature , motherboard voltage (Only selected Advantech MBs/CPU cards with SUSIAccess installed can fully enable these functions, check with Advantech local rep. for detailed information.)		
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
Physical Characteristics	Dimensions (W x H x D)	482 x 177 x 479 mm (19" x 7.0" x 18.9")	
	Weight	16.6 kg (36.5 lb)	

*Installation of all 15 full-size cards will sacrifice the two 3.5" disk drive bays.

*While an EEB motherboard is installed in the chassis, only one 3.5" and two 5.25" disk drive bays are available.

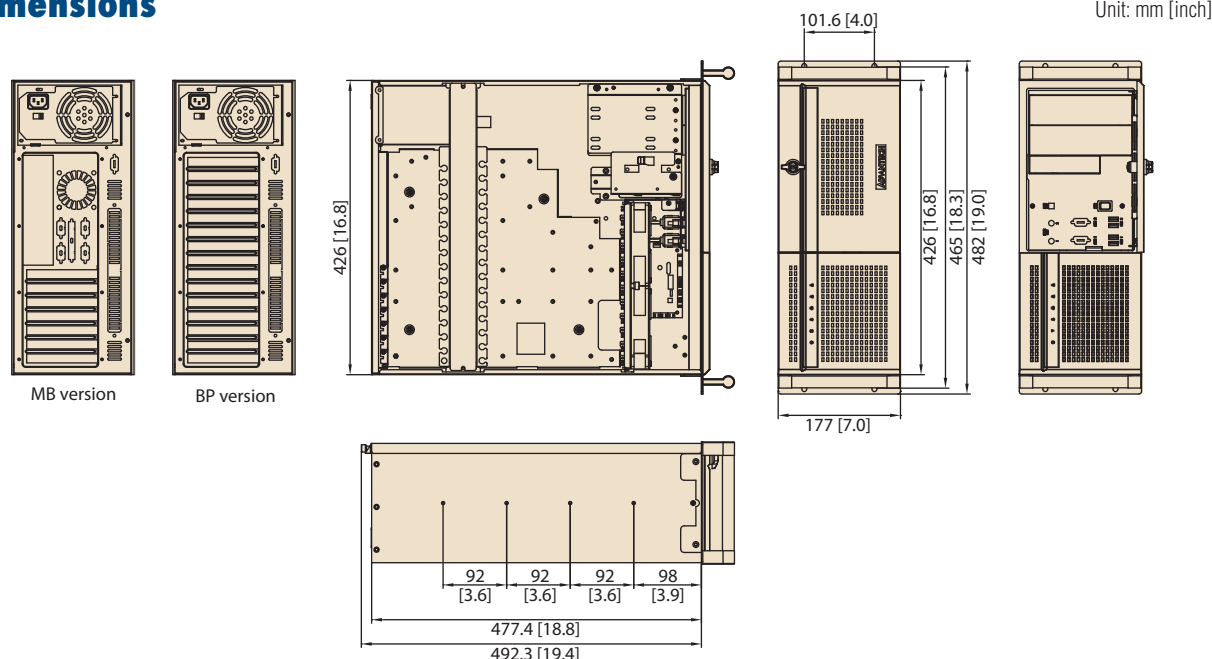
Front View



Inside View



Dimensions



Ordering Information

Model Name	Description
Backplane Version	
ACP-4010BP-00BE	Without PSU with ATX switch
Motherboard Version	
ACP-4010MB-00BE	Without PSU with ATX switch

Power Supply Options

(For detailed power supply specs, please refer to Chapter 13)

Part Number	80 Plus Grade	Wattage	Type	Input
PS8-300ATX-ZBE	Bronze	300W	Single	AC 100 ~ 240 V (full range)
PS8-400ATX-ZE	Bronze	400W	Single	AC 100 ~ 240 V (full range)
PS8-500ATX-ZE	Bronze	500W	Single	AC 100 ~ 240 V (full range)
RPS8-350ATX-XE	Gold	350W	1+1 Redundant	AC 100 ~ 240 V (full range)
RPS8-500ATX-XE	Bronze	500W	1+1 Redundant	AC 100 ~ 240 V (full range)
RPS8-750ATX-XE	Gold	750W	1+1 Redundant	AC 100 ~ 240 V (full range)

Optional Accessories

Part Number	Description
IPC-DT-3120E	Mobile rack for converting a 3.5" drive bay to dual 2.5" SATA HDD trays
IPC-DT-5230E	Mobile rack for converting dual 5.25" drive bays to three 3.5" SAS/SATA HDD trays

Spare Parts

Part Number	Description
1990001299	Fan filter 95 x 130 mm
1990001298	Door filter 150 x 68 mm

Intelligent Video and IoT Sensors	1
Intelligent Transportation Platforms	2
Intelligent Inspection Systems	3
Modular IPCs	4
Server-grade IPCs	5
Industrial Storages	6
Video Wall Controllers	7
GPU Servers	8
Industrial Motherboards	9
Slot SBC & Passive Backplanes	10
CompactPCI Platforms	11
Industrial Chassis	12
Industrial Computer Peripherals	13
Industrial Ethernet Solutions	14

ACP-4320

Quiet 4U Rackmount Chassis with Dual Hot-Swap SAS/SATA HDD Trays



Features

- Supports either an ATX motherboard or a PICMG backplane with up to 15 slots
- Support dual SAS/SATA hot-swap HDD trays
- LED indicators and alarm notification for system fault detection
- Low noise system fans
- Built-in Intelligent System Module enabling whole system fan control and remote manageability

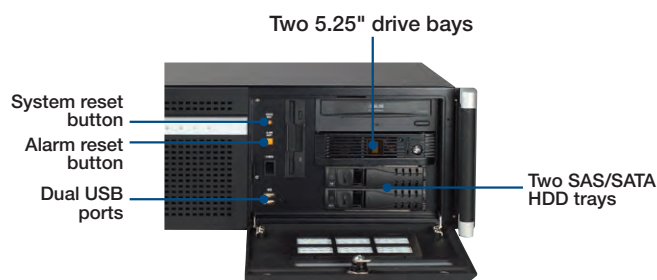
Quiet

CE FCC

Specifications

Driver Bay	5.25"	External	Internal
	3.5"	2	-
	Hot Swap	1 SAS/SATA Tray	-
Cooling		2 (compatible with 3.5" or 2.5" devices)	
	Fan	1(12 cm/74 CFM) + 1 (6cm / 28 CFM)	
	Air Filter	Yes	
	Smart Fan	System fan speed referring to chassis thermal sensor, or CPU temperature (Available with selected Advantech MBs/CPU cards)	
Front I/O Interface	USB 2.0	2	
Miscellaneous	LED Indicators	Power, HDD, temperature, fan, LAN1 and LAN2	
	Rear Panel	Backplane version: One 9-pin D-Sub opening Motherboard version: Five 9-pin D-Sub opening and one 68-pin SCSI opening	
Intelligent System Module Remote Monitoring	CPU/System fan speed , CPU/System temperature , motherboard voltage (Only selected Advantech MBs/CPU cards with SUSIAccess installed can fully enable these functions, check with Advantech local rep. for detailed information.)		
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	10G (with 11 ms duration, half sine wave)	30 G
Physical Characterisitcs	Dimension (W x H X D)	482 x 177 x 479 mm (19" x 7.0" x 18.9")	
	Weight	17.6 ka (38.7lb)	

Front View



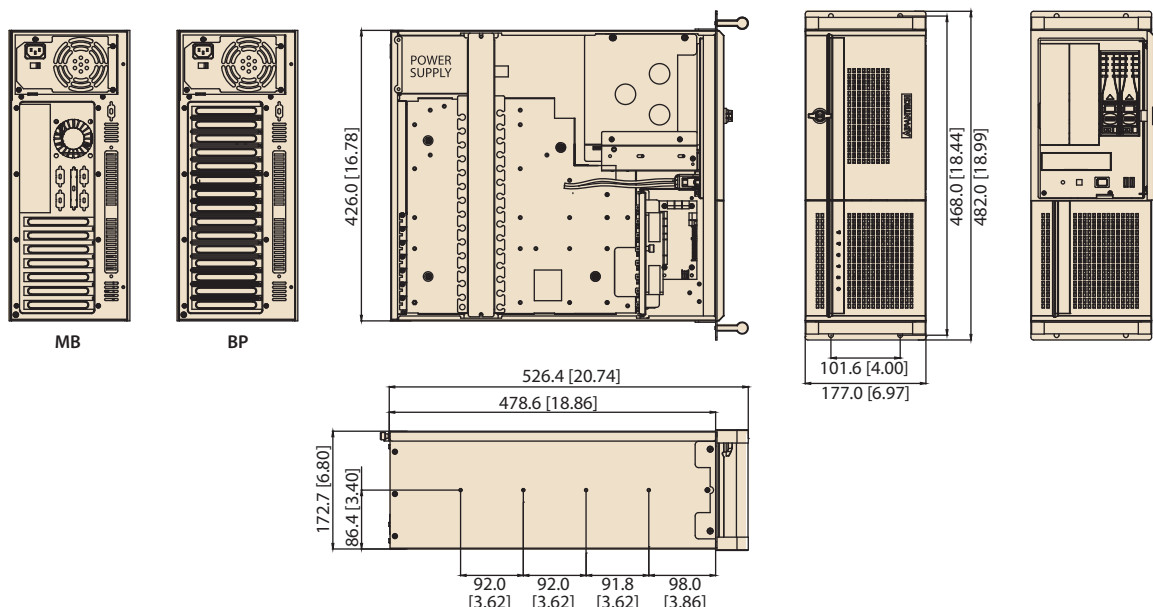
Inside View

Easy-to-maintain system fan



Dimensions

Unit: mm [inch]



Ordering Information

Model Name	Description
ACP-4320BP-00BE	Full-sized PICMG 1.0/1.3 BP version, without PSU
ACP-4320MB-00BE	MB version, without PSU
ACP-4320BP-40BE	Full-sized PICMG 1.0/1.3 BP version, with 96PS-A400WPS2
ACP-4320MB-40BE	MB version, with 96PS-A400WPS2

Power Supply Options

Part Number	80 Plus Grade	Wattage	Type	Input
PS8-300ATX-ZBE	Bronze	300W	Single	AC 100 ~ 240 V (full range)
PS8-400ATX-ZE	Bronze	400W	Single	AC 100 ~ 240 V (full range)
PS8-500ATX-ZE	Bronze	500W	Single	AC 100 ~ 240 V (full range)
RPS8-350ATX-XE (1+1 redundant)	Gold	350W	1+1 Redundant	AC 100 ~ 240 V (full range)
RPS8-500ATX-XE (1+1 redundant)	Bronze	500W	1+1 Redundant	AC 100 ~ 240 V (full range)

Optional Accessories

Part Number	Description
IPC-DT-3120E	Mobile rack for converting a 3.5" drive bay to dual 2.5" SATA HDD trays
IPC-DT-5230E	Mobile rack for converting dual 5.25" drive bays to three 3.5" SAS/SATA HDD trays
1700007351	M Cable SATA 7P/SATA 7P 40CM C=R 90/180

When choose ASMB-781, ASMB-782, ASMB-820, ASMB-823 for system mother board, 2pcs right-angle SATA cable (PN: 1700007351) are necessary for hot-swap driver bay.

Spare Parts

Part Number	Description
1990001299	Fan filter 95 x 130 mm
1990001298	Door filter 150 x 68 mm

Intelligent Video and IoT Sensors	1
Intelligent Transportation Platforms	2
Intelligent Inspection Systems	3
Modular IPCs	4
Server-grade IPCs	5
Industrial Storages	6
Video Wall Controllers	7
GPU Servers	8
Industrial Motherboards	9
Slot SBC & Passive Backplanes	10
CompactPCI Platforms	11
Industrial Chassis	12
Industrial Computer Peripherals	13
Industrial Ethernet Solutions	14

ACP-4340

4U Rackmount Chassis for Full-size SHB/SBC or ATX/MicroATX Motherboard with 4 Hot Swap Drive Trays



Features

- Supports a PICMG backplane with up to 14 slots or an ATX/Micro-ATX motherboard
- Shock-resistant disk drive bay holds four hot-swap 3.5" and 2.5" SAS/SATA disk trays, one slim optical disk drive, and one 2.5" internal drive
- Dual front USB 3.0 ports
- Front-accessible system fan without opening top cover for easy maintenance
- LED indicators and alarm notification for system fault detection
- Smart fan speed control
- Built-in Intelligent System Module enabling whole system fan control and remote manageability

Quiet

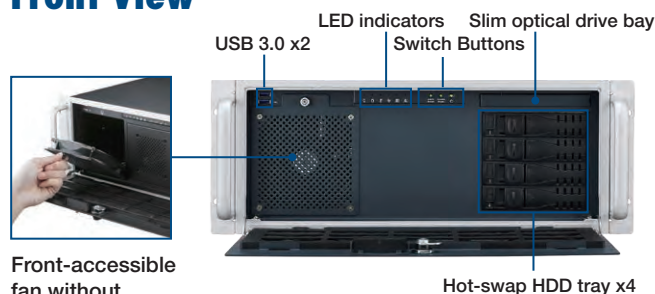
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Specifications

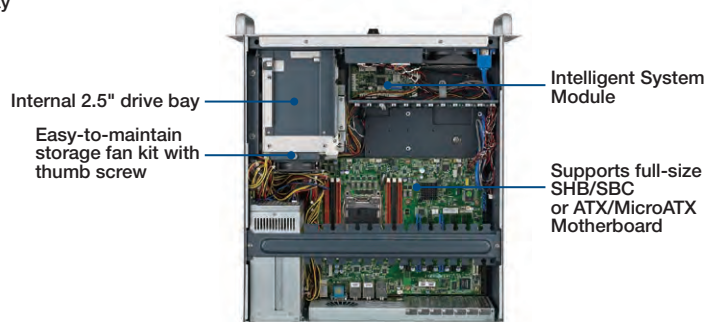
		External	Internal
Drive Bay	Slim Optical Drive Bay	1	-
	3.5" Drive Bay	-	-
	2.5" Drive Bay	-	1
	Hot Swap	4	-
Cooling	Fan	1 (12 cm /74 CFM) + 1 (8 cm/56 CFM) for SAS/SATA storage unit	
	Air Filter	Yes	
Front I/O Interface	USB 3.0*	2	
Miscellaneous	LED Indicators	Power, HDD, temperature, fan, LAN1, and LAN2	
	Rear Panel	Backplane version: One 9-pin D-Sub opening Motherboard version: Five 9-pin D-Sub and one 68-pin SCSI openings	
Intelligent System Module Remote Monitoring	CPU/System fan speed , CPU/System temperature , motherboard voltage (Only selected Advantech MBs/CPU cards with SUSIAccess installed can fully enable these functions, check with Advantech local rep. for detailed information.)		
Environment	Temperature	Operating 0 ~ 40° C (32 ~ 104° F)	Non-Operating -40 ~ 70° C (-40 ~ 156° F)
	Humidity	10 ~ 95% @ 40° C, non-condensing	10 ~ 95% @ 60° C, non-condensing
	Vibration (5 ~ 500 Hz)	1 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	
Physical Characteristics	Dimensions (W x H x D)	482 x 177 x 478 mm (19" x 7.0" x 18.8")	
	Weight	12.5 kg (27.5 lb)	

* The USB ports do not operate normally if a main board with USB 2.0 internal connector only is installed.

Front View



Inside View



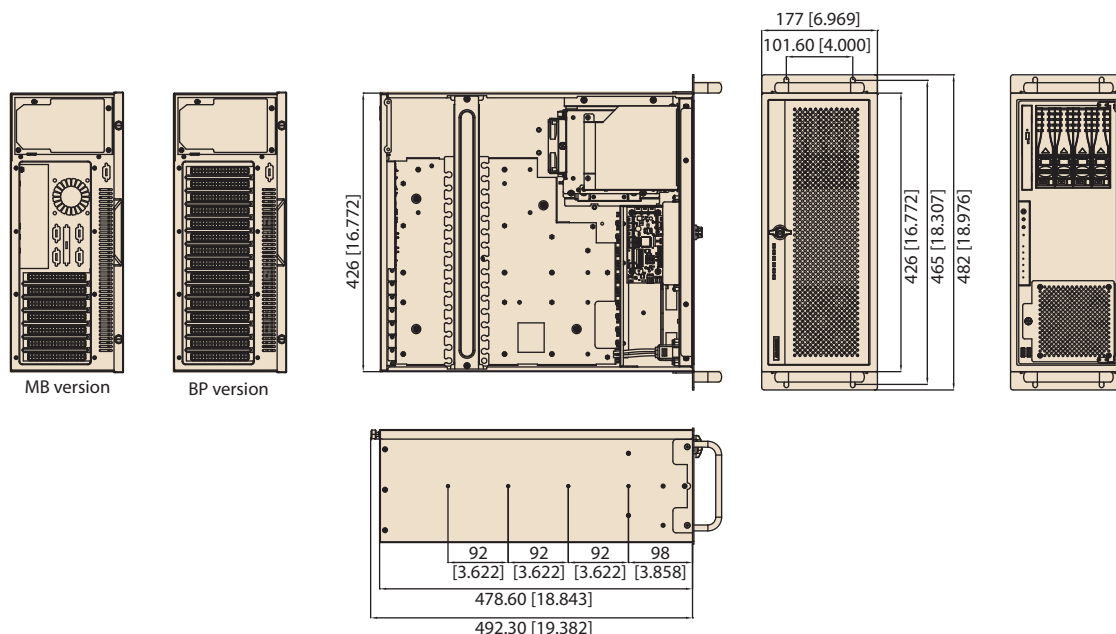
Rear View



*Note: Backplane, SBC, motherboard, and power supply are not included.

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Description
Backplane Version	
ACP-4340BP-00XE	Without PSU, with ATX switch
Motherboard Version	
ACP-4340MB-00XE	Without PSU, with ATX switch

Power Supply Options

Part Number	80 Plus Grade	Watts	Type	Input
PS8-400ATX-ZE	Bronze	400W	Single	AC 100 ~ 240 V (full range)
PS8-500ATX-ZE	Bronze	500W	Single	AC 100 ~ 240 V (full range)
PS8-700ATX-ZE	Bronze	700W	Single	AC 100 ~ 240 V (full range)
RPS8-500ATX-XE	Bronze	500W	1+1 Redundant	AC 100 ~ 240 V (full range)

Optional Accessories

Part Number	Description
96CB-SATAPOWER-6P1	SATA power wire 6-pin to big 4-pin (for slim ODD)
98R1434000E	ACP-4340 fan kit for multi GPU card

Spare Parts

Part Number	Description
9662132020E	Black mobile HDD tray
1990021256T000	Door filter

Intelligent Video and IoT Sensors	1
Intelligent Transportation Platforms	2
Intelligent Inspection Systems	3
Modular IPCs	4
Server-grade IPCs	5
Industrial Storages	6
Video Wall Controllers	7
GPU Servers	8
Industrial Motherboards	9
Slot SBC & Passive Backplanes	10
CompactPCI Platforms	11
Industrial Chassis	12
Industrial Computer Peripherals	13
Industrial Ethernet Solutions	14

ACP-4360

4U Rackmount Chassis with 6 Hot-Swap SAS / SATA Trays for RAID



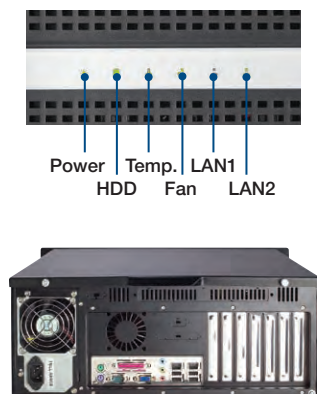
Features

- Supports up to 6 SAS/SATA HDDs, which can be hot-swappable if a SATA RAID card is used
- Supports either an ATX motherboard or a PICMG backplane up to 15 slots
- Supports one slim optical disk drive and one 3.5" FDD or internal HDD
- LED indicators for LAN connectivity and alarm notification for redundant power supply, HDD activity, system fan and in-chassis temperature
- Reusable, front-accessible filters for easy maintenance

CE FCC

Specifications

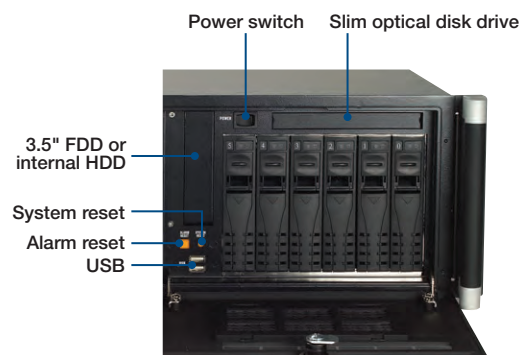
Drive Bay		Front-accessible	
	Slim Optical Drive (Front-accessible) 3.5"	1 6 SAS/SATA HDDs + 1 (mobile trays compatible with 2.5" HDD/SSD)	
Cooling	Fan	1 (12 cm / 114 CFM) + 2 (8 cm / 47 CFM each) for SAS/SATA storage unit	
	Air Filter	Yes	
Front I/O Interface	USB	2	
Miscellaneous	LED Indicators	System: Power, HDD (for IDE drives only), fan, temperature, LAN1 and LAN2 SAS/SATA HDD trays: HDD power and activity	
	Rear Panel	Backplane version: One 9-pin D-Sub opening Motherboard version: Five 9-pin D-Sub and one 68-pin SCSI 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 G
	Shock	10 G (with 11 ms duration, half sine wave)	30 G
Physical Characteristics	Dimensions (W x H x D)	482 x 177 x 501 mm (19" x 7" x 19.8")	
	Weight	19.0 kg (41.8 lb)	



Rear view of ACP-4360MB



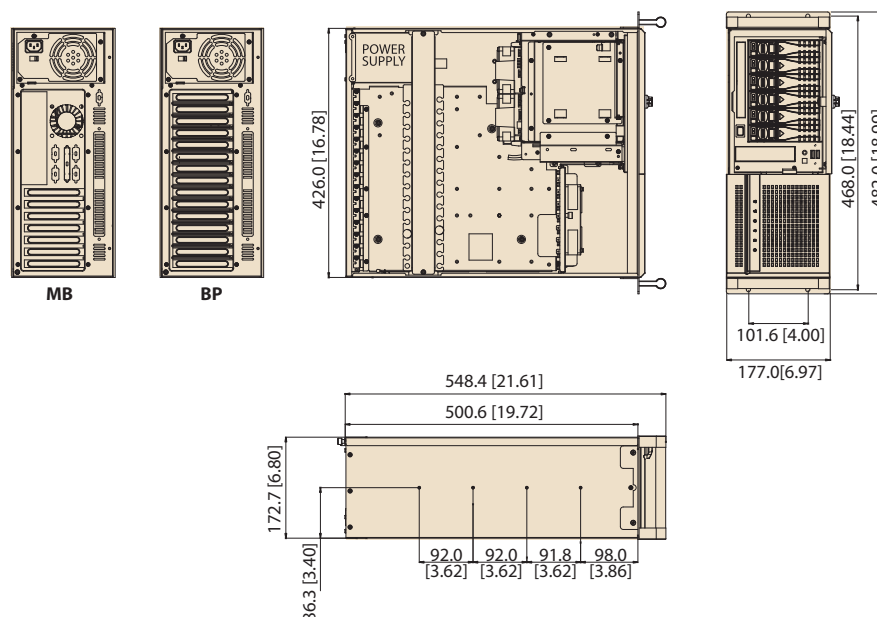
Easy-to-maintain system fan



Six hot-swappable SAS/SATA HDD trays

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Power Supply
Backplane Version	
ACP-4360BP-00XBE	Without power supply, with ATX switch
Motherboard Version	
ACP-4360MB-00XBE	Without power supply, with ATX switch

Power Supply Options

(For detailed power supply specs, please refer to Chapter 13)

Part Number	Specifications	
	Watts	Input
PS8-400ATX-ZE	400W	AC 100 ~ 240 V (full range)
PS8-500ATX-ZE	500W	AC 100 ~ 240 V (full range)
PS8-700ATX-ZE	700W	AC 100 ~ 240 V (full range)
RPS8-350ATX-XE (1+1 redundant)	350W	AC100~240V(full range)
RPS8-500ATX-XE (1+1 redundant)	500W	AC 100 ~ 240 V (full range)

Optional Accessories

Part Number	Description
96CB-SATAPOWER-6P1	SATA power wire 6-pin to big 4-pin (for slim ODD)
96RC-SAS-4P-PE-LS	Interface PCIe x8, 4-port SAS/SATA RAID card with 1 SAS SFF8087 connector
96RC-SAS-8P-PE-LS1	Interface PCIe x8, 8-port SAS/SATA RAID card with 2 SAS SFF8087 connectors
96CB-SAS-SATA-4P	Mini SAS to 4 SATA + SGPIO cable, 0.8 m

PS. When choosing either of above RAID cards, please must use 96CB-SAS-SATA-4P to ensure the LEDs on HDD trays function correctly.

Spare Parts

Part Number	Description
1990001299	Fan filter 95 x 130 mm
1990001298	Door filter 150 x 68 mm
9662700022E	Black 3.5" mobile HDD tray

Intelligent Video and IoT Sensors	1
Intelligent Transportation Platforms	2
Intelligent Inspection Systems	3
Modular IPCs	4
Server-grade IPCs	5
Industrial Storages	6
Video Wall Controllers	7
GPU Servers	8
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Industrial Ethernet Solutions	14