

# ACP-4020

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



### Features

- 4U rackmount 348 mm depth chassis
- 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
- Built-in Intelligent System Module enabling whole system fan control and remote manageability

CE FCC

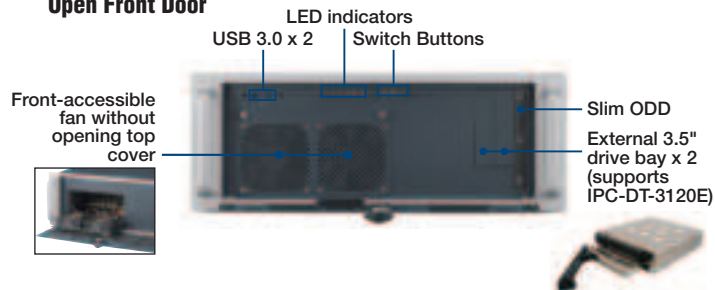
### Specifications

|                                                  |                                                                                                                                                                                             | External                                                                                                          | Internal                                   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Drive Bay                                        | Slim ODD                                                                                                                                                                                    | 1                                                                                                                 | -                                          |
|                                                  | 3.5"                                                                                                                                                                                        | 2                                                                                                                 | -                                          |
|                                                  | 2.5"                                                                                                                                                                                        | -                                                                                                                 | 1                                          |
| Cooling                                          | Fan                                                                                                                                                                                         | 2 (9 cm PWM / 52 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<br>Motherboard version: Five 9-pin D-Sub and one 25-pin D-Sub openings |                                            |
| System Monitoring                                |                                                                                                                                                                                             | Chassis intrusion switch                                                                                          |                                            |
| Intelligent System Module<br>Hardware Monitoring | CPU/System fan speed , CPU/System temperature (Only Advantech AIMB-78X, PCE-51XX/71XX mainboards can enable CPU fan speed and temperature monitoring function of Intelligent System Module) |                                                                                                                   |                                            |
| Environment                                      | Temperature                                                                                                                                                                                 | Operating<br>0 ~ 40 °C (32 ~ 104 °F)                                                                              | Non-Operating<br>-20 ~ 60 °C (-4 ~ 140 °F) |
|                                                  | Humidity                                                                                                                                                                                    | 10 ~ 85% @ 40 °C, non-condensing                                                                                  |                                            |
|                                                  | Vibration (5 ~ 500 Hz)                                                                                                                                                                      | 1 Grms                                                                                                            |                                            |
|                                                  | Shock                                                                                                                                                                                       | 10 G (with 11 ms duration, half sine wave)                                                                        |                                            |
|                                                  | Weight                                                                                                                                                                                      | 2 G                                                                                                               |                                            |
| 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 3.0 ports do not operate if the motherboard has no on-board USB 3.0 box header.

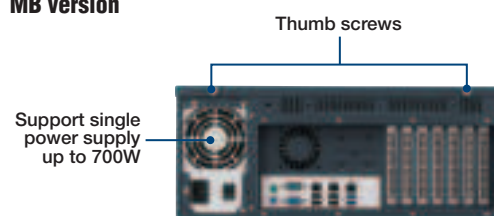
### Front View

#### Open Front Door

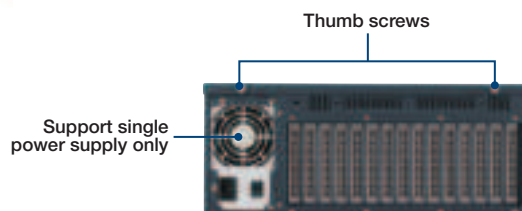


### Rear View

#### MB version



#### BP version

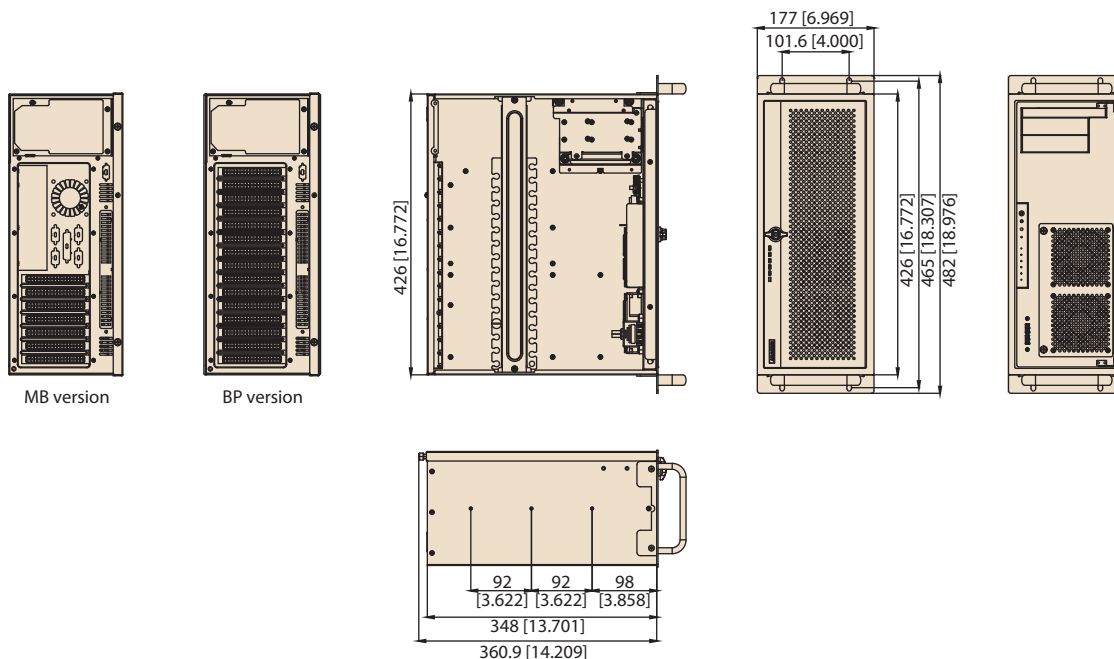


### Inside View



## Dimensions

Unit: mm [inch]



## Ordering Information

| Part Number                | Power supply   | Power supply type | Wattage | 80 plus grade | Switch type |
|----------------------------|----------------|-------------------|---------|---------------|-------------|
| <b>Backplane Version</b>   |                |                   |         |               |             |
| ACP-4020BP-50B             | PS8-500ATX-BB  | Single            | 500W    | Bronze        | ATX         |
| <b>Motherboard Version</b> |                |                   |         |               |             |
| ACP-4020MB-30B             | PS8-300ATX-ZBE | Single            | 300W    | Bronze        | ATX         |
| ACP-4020MB-50B             | PS8-500ATX-BB  | Single            | 500W    | Bronze        | ATX         |
| ACP-4020MB-70B             | PS8-700ATX-BB  | Single            | 700W    | Bronze        | ATX         |

## Packing List

| Part Number                     | Description                                        | Quantity |
|---------------------------------|----------------------------------------------------|----------|
| ACP-4020                        | chassis                                            | 1        |
| 1750009328-01                   | system fan                                         | 2        |
| 1700020999-02                   | system fan cable (MB version)                      | 2        |
| 1703030254                      | system fan cable (BP version)                      | 2        |
| 1990021256T000                  | Door filter                                        | 1        |
| 1960002462                      | key set                                            | 1        |
| <b>Content of Accessory Box</b> |                                                    |          |
| 98R24340000                     | Handle set                                         | 1        |
|                                 | Screws/nuts and rubber for motherboard and devices | one bag  |
|                                 | User manual                                        | 1        |

## Optional Accessories

| Part Number        | Description                                                                              |
|--------------------|------------------------------------------------------------------------------------------|
| IPC-DT-3120E       | Drive bay module of two 2.5" HDD in 3.5" space                                           |
| 96CB-SATAPOWER-6P2 | SATA power wire 6-pin to big 4-pin (for slim ODD)                                        |
| 1700029268-01      | Power cable for GPU card (Two 4-pin 12V connectors to one 6+2 pins PCIe power connector) |
| 1700024754-01      | Power cable for GPU card (Two B4P Molex connectors to one 6+2 pins PCIe power connector) |

\* If GPU card with 2 power connectors, please use 1700029268-01\*1 + 1700024754-01\*1;  
If GPU card with 1 power connector, please use 1700029268-01.

\* Only 500W or higher wattage PSU support 1700029268-01 and 1700024754-01 for high-end GPU card.