# IPC-220 / 240

## Compact Industrial Computer Chassis for PCE-2000 Series CPU Board




## Features

- Compact IPC chassis with two/four front expansion slots
- Shockproof drive bay for two 2.5" HDD/SSD
- Single-side I/O for easy maintenance
- Support Advantech iDoor
- Bidirectional to mount on wall or workbench
- Qualified for AWS(Amazon Web Service) IoT Greengrass

## Specifications

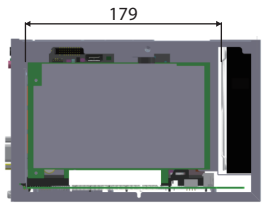
| | | | | | |
|---|---|---|---|---|---|
| Disk Drive Bay | 2.5" | 2 Swappable (Max height 15mm) | | | |
| Cooling | Fan | 1 (12cm/82CFM) | | | |
| | Air Filters | Yes | | | |
| Front IO | USB | 8 | | | |
| | LAN | 2 | | | |
| | Video Output | HDMI, VGA | | | |
| | Audio | Mic-in, Line-out | | | |
| | Serial Port | 2 x RS-232/422/485 support auto flow control | | | |
| | Remote SW | Used for remote power on/off signal | | | |
| | DC Outlet | 12V@2A max; 5V@2A max | | | |
| Expansion | I/O Module | Support Advantech iDoor | | | |
| | Add-On Card Module | | PCIe x16 | PCIe x4 | PCI |
| | | IPC-220-20A1/IPC-220-20B1 | 1 | 1 | |
| | | IPC-240-20A1/IPC-240-20B1 | 1 | 3 | |
| | | IPC-240-21A1/IPC-240-21B1 | 1 | 1 | 2 |
| Miscellaneous | Control | Power switch | | | |
| | LED Indicator | Power / Disk / CPU Temp. Alarm / System Temp. Alarm / CPU Fan Alarm / Watch Dog | | | |
| Environment | | Operating | | Non-operating | |
| | Temperature | 0 ~ 45 °C | | -40 ~ 85 °C | |
| | Humidity | 95% @ 40 °C (non-condensing) | | | |
| | Vibration (5-500 Hz) | With SSD: 2 Grms @ 5 ~ 500 Hz, random, 1 hr/axis<br>With HDD: 0.5Grms @ 5 ~ 500 Hz, random, 1 hr/axis | | | |
| | Shock | 10G, IEC-68-2-27, half-sine wave, 11 ms duration | | | |
| Mechanical | Dimensions(W x H x D) | IPC-220: 155 x 230 x 150 mm (6.1" x 9.05" x 5.9")<br>IPC-240: 195 x 230 x 150 mm (7.68" x 9.05" x 5.9") | | | |
| | Weight | IPC-220: 3.1 kg<br>IPC-240: 3.3 kg | | | |

https://advavee.com

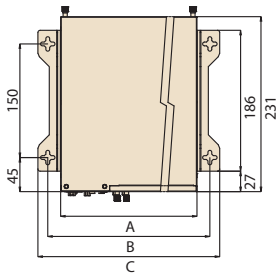
## Dimensions

Unit: mm

**Add on card Max. length**

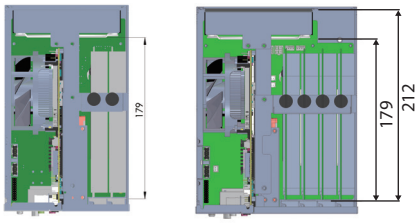



Side View

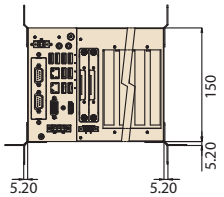


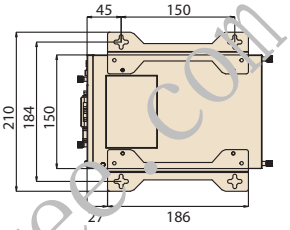

| | IPC-220-20A1<br>IPC-220-20B1 | IPC-240-20A1<br>IPC-240-20B1 | IPC-240-21A1<br>IPC-240-21B1 |
|---|---|---|---|
| A | 155 | 195 | 195 |
| B | 189 | 229 | 229 |
| C | 215 | 255 | 255 |

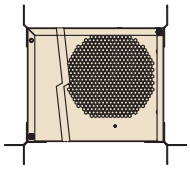
**IPC-220** **IPC-240**




Top View

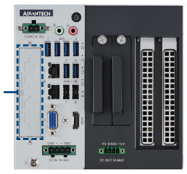


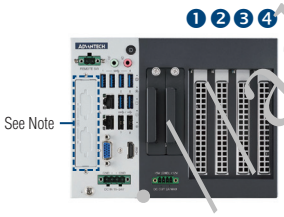
## Front View

❶❷




IPC-220-20A1/IPC-220-20B1

❶❷❸❹




IPC-240-20A1/IPC-240-20B1
IPC-240-21A1/IPC-240-21B1

| Expansion slot order | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| IPC-220-20A1<br>IPC-220-20B1 | PCIe x16 | PCIe x4 | - | - |
| IPC-240-20A1<br>IPC-240-20B1 | PCIe x16 | PCIe x4 | PCIe x4 | PCIe x4 |
| IPC-240-21A1<br>IPC-240-21B1 | PCIe x16 | PCI | PCIe x4 | PCI |

Note: 2-port D-sub 9-pin COM cable to be assembled upon request

## Ordering Information

| Chassis Part Number | Compatible CPU Board Model | PCIe x16 | PCIe x4 | PCI | HDD/SSD | Power | Internal USB (2.0 Type A) | ErP Compliance |
|---|---|---|---|---|---|---|---|---|
| IPC-220-20A1 | PCE-2132 / PCE-2133 | 1 | 1 | 0 | 2 x 2.5" | 19-24 VDC | 2 | No |
| | PCE-2032 / PCE-2033 | 1 | 1 | 0 | 2 x 2.5" | 19-24 VDC | 2 | No |
| IPC-240-20A1 | PCE-2132 / PCE-2133 | 1 | 3 | 0 | 2 x 2.5" | 19-24 VDC | 2 | No |
| IPC-240-21A1 | PCE-2132 / PCE-2133 | 1 | 1 | 2 | 2 x 2.5" | 19-24 VDC | 2 | No |
| | PCE-2032 / PCE-2033 | 1 | 1 | 2 | 2 x 2.5" | 19-24 VDC | 2 | No |
| IPC-220-20B1 | PCE-2132 / PCE-2133 | 1 | 1 | 0 | 2 x 2.5" | 19-24 VDC | 2 | Yes |
| | PCE-2032 / PCE-2033 | 1 | 1 | 0 | 2 x 2.5" | 19-24 VDC | 2 | Yes |
| IPC-240-20B1 | PCE-2132 / PCE-2133 | 1 | 3 | 0 | 2 x 2.5" | 19-24 VDC | 2 | Yes |
| IPC-240-21B1 | PCE-2132 / PCE-2133 | 1 | 1 | 2 | 2 x 2.5" | 19-24 VDC | 2 | Yes |
| | PCE-2032 / PCE-2033 | 1 | 1 | 2 | 2 x 2.5" | 19-24 VDC | 2 | Yes |

| CPU Board Part number | Intel CPU Support | Chipset | USB 3.2 | USB 2.0 | GbE | NVMe M.2 | miniPCIe | COM |
|---|---|---|---|---|---|---|---|---|
| PCE-2133-00A1 | 12th/13th Gen | Q670E | 8 | 0 | 2 | 1 (PCIe x4 M Key) | 1 (Full-Size) | 2 |
| PCE-2033-00A1 | 12th/13th Gen | H610E | 4 | 4 | 2 | 0 | 1 (mSATA Only) | 2 |
| PCE-2132-00A1 | 10th Gen | Q470E | 6 | 2 | 2 | 1 (PCIe x4 M Key) | 1 (Full-Size) | 2 |
| PCE-2032-00A1 | 10th Gen | H420E | 6 | 2 | 2 | 0 | 1 (mSATA Only) | 2 |

## IPC-220/240 Packing List

| Item | Description |
|---|---|
| IPC-220/240 | Compact Industrial Computer Chassis |
| 1960070543T005 | Mounting Bracket |
| | User Manual for IPC-220/240 |
| 1652003234 | 4-pin Phoenix power connector |
| 1652002205 | Remote SW 2 pin Phoenix connector |
| 1652007894-01 | 4-Pin Plug in 3.5mm 90D(F) DC output connector |
| 1700019968 | F Cable 2*10P-2.0/D-SUB 9P(M)*2 15CM ARK-2120 |
| 1960068789N105 | IDOOR COMX2 COVER FOR IPC-240 877C |
| 1700024926-01 | A CABLE 1*2P-2.0/PLUG-IN 2P-5.08 16cm |
| 1700019968 | 2-port D-sub 9-pin COM cable |

Note: 2-port D-sub 9-pin COM cable to be assembled upon request

## Optional Accessories

| Part Number | Description |
|---|---|
| 96PSA-A230W24P4-3 | ADP A/D 100-240V 230W 24V TB 4P |
| 96PSA-A150W19P4-4 | ADP A/D 100-240V 150W 19V C14 TERMINAL BLOCK 4P |
| 1702002600 | Power cord (USA) UL/CSA, 3-pin, 10A, 125V, 1.83 M, 180 D |
| 1700022940-01 | Power cord PSE, 3-pin, 7A, 125V, 3 m, DAC-ST01 |
| 1702002605 | Power cord (EU) 2-pin, 10/16A, 220V, 1.83 M, 90 D |
| 96PSD-A240W24-MN | DIN RAIL Adapter A/D 100-240V 240W 24V |
| 1700031170-01 | 4-PIN DC to DC Power cable, DIN Rail Adapter, 150cm |
| 1700029720-01 | Power Cord (USA), 3 Pin, DIN Rail Adapter, 183cm |
| 1700030520-01 | Power Cord (CN), 3 Pin, DIN Rail Adapter, 150cm |
| 1700024858-01 | POE Power Cable 2*2P-4.2/2*2P-4.2 15cm |

Note: The PCM series module requires a bracket (P/N : 1960065854N001) that must be ordered separately.

https://advantech.com