

# IPC962-511-FL

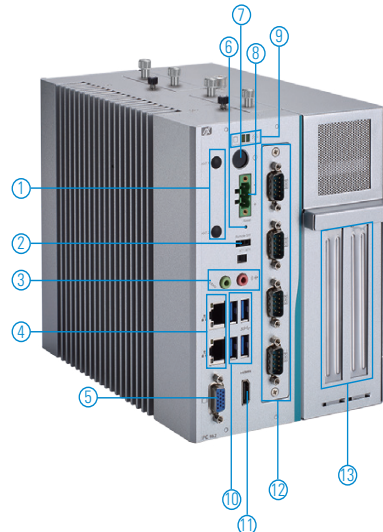
2-slot Fanless Industrial System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® H110, Front-access I/O, PCIe and PCI Slots

## Features

- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, up to 65W (codename: Kaby Lake/Skylake)\*
- Intel® H110 chipset
- Supports 2 expansion slots
- Power input: 24 VDC (uMin=19V/uMax=30V)
- Compact & front I/O design
- -10°C to +60°C operating temperature range
- Supports 2 swappable 2.5" HDD
- Supports ECM BIOS setting
- Supports WLAN module & antenna (optional)
- Supports TPM 2.0



▲ Rear view



- |                        |                     |                                                                                                     |
|------------------------|---------------------|-----------------------------------------------------------------------------------------------------|
| 1. 2 x Antenna opening | 6. Reset switch     | 12. (1) AX93511: 4 x RS-232/422/485 module (default RS-232)                                         |
| 2. Remote switch       | 7. Power switch     | (2) AX93512: 2 x RS-232/422/485 with isolated 1.5KVDC & 8-in/8-out with isolated 1.5KVDC DIO module |
| 3. Mic-in & Line-out   | 8. Terminal block   | (3) AX93516: 4 x RS-232/422/485 with isolated 2KVDC module                                          |
| 4. 2 x LAN             | 9. HDD & Power LEDs | 13. (1) AX96205: 1 PCIe x16 + 1 PCIe x4                                                             |
| 5. VGA                 | 10. 4 x USB 3.0     | (2) AX96206: 1 PCIe x16 + 1 PCI                                                                     |
|                        | 11. HDMI            | (3) AX96207: 2 PCI                                                                                  |



## Specifications

|                      |                                                                                                 |                                                                                        |
|----------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Standard Color       | Silver                                                                                          |                                                                                        |
| Construction         | Aluminum extrusion heavy-duty cold-rolled steel, IP40 (w/o fan module)                          |                                                                                        |
| Processor System     | CPU Level                                                                                       | 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, up to 65W (Kaby Lake/SkyLake)* |
|                      | Chipset                                                                                         | Intel® H110                                                                            |
| System Memory        | 2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB                                              |                                                                                        |
| System I/O           | 1 x Switch for power on/off (ATX)                                                               |                                                                                        |
|                      | 1 x Remote switch                                                                               |                                                                                        |
|                      | 1 x Reset switch                                                                                |                                                                                        |
|                      | 1 x 3-pin terminal block                                                                        |                                                                                        |
|                      | 1 x AT/ATX selectable switch                                                                    |                                                                                        |
|                      | 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)                                                  |                                                                                        |
|                      | 4 x USB 3.0                                                                                     |                                                                                        |
|                      | 1 x HDMI                                                                                        |                                                                                        |
|                      | 1 x VGA                                                                                         |                                                                                        |
|                      | 1 x Audio (Mic-in/Line-out)                                                                     |                                                                                        |
| Expansion I/O Module | AX93511: 4 x RS-232/422/485 module (default RS-232)                                             |                                                                                        |
|                      | AX93512: 2 x RS-232/422/485 with isolated 1.5KVDC & 8-in/8-out with isolated 1.5KVDC DIO module |                                                                                        |
|                      | AX93516: 4 x RS-232/422/485 with isolated 2KVDC module                                          |                                                                                        |
|                      |                                                                                                 |                                                                                        |
| TPM                  | TPM 2.0                                                                                         |                                                                                        |

|                       |                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Expansion Interface   | AX96205: 1 x PCIe x16 Gen3 + 1 x PCIe x4<br>AX96206: 1 x PCIe x16 Gen3 + 1 x PCI<br>AX96207: 2 x PCI<br>1 x Full-size PCI Express Mini Card slot with USB interface                  |
| Storage               | 2 x 2.5" swappable HDD (up to 15 mm height)                                                                                                                                          |
| System Indicators     | 1 x Power LED<br>1 x HDD LED                                                                                                                                                         |
| Power Input           | Type: ATX/AT<br>Input: 24 VDC (uMin=19V/uMax=30V)                                                                                                                                    |
| Operating Temperature | -10°C to +60°C (+14°F to +140°F) with 6th gen Intel® Core™ up to 35W and W.T. HDD/SSD*<br>-10°C to +50°C (+14°F to +122°F) with 6th/7th gen Intel® Core™ up to 65W and W.T. HDD/SSD* |
| Storage Temperature   | -20°C to +80°C (-4°F to +176°F)                                                                                                                                                      |
| Humidity              | 10% to 90%, non-condensing                                                                                                                                                           |
| Dimensions            | 147.5 mm (5.80") (W) x 192 mm (7.54") (H) x 230 mm (9.04") (D)                                                                                                                       |
| Weight (net/gross)    | 4.382 kg (9.66 lb)/5.346 kg (11.80 lb)                                                                                                                                               |
| Certifications        | CE, FCC                                                                                                                                                                              |

\* CPU support list please refer to the user's manual.

## Ordering Information

| System                                |                                                                                                                                                              |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IPC962-511-DC-FL<br>(P/N: E26G962100) | 2-slot fanless industrial system with LGA1151 socket<br>7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor,<br>Intel® H110 chipset, and front-access I/O |

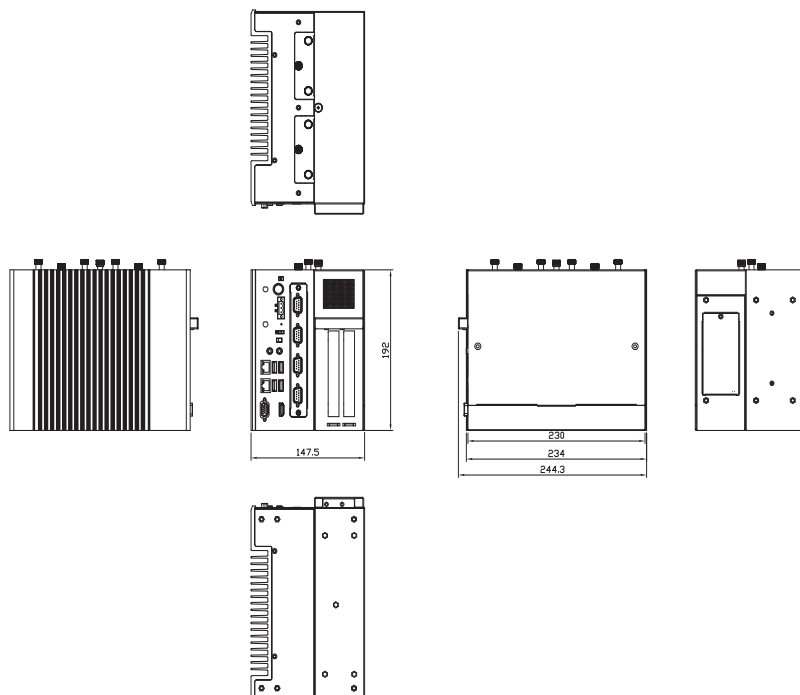
### I/O Module & Riser Card

|                                |                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------|
| AX93511<br>(P/N: 8816G962020E) | 4 x RS-232/422/485 module (default RS-232)                                                |
| AX93512<br>(P/N: 8816G962060E) | 2 x RS-232/422/485 with isolated 1.5KVDC & 8-in/8-out<br>with isolated 1.5KVDC DIO module |
| AX93516<br>(P/N: 8816G962030E) | 4 x RS-232/422/485 with isolated 2KVDC module                                             |
| 726G9620610E                   | Blank I/O cover                                                                           |
| AX96205<br>(P/N: 83962051000E) | 1 x PCIe x16 + 1 PCIe x4 expansion kit                                                    |
| AX96206<br>(P/N: 83962061000E) | 1 x PCIe x16 + 1 PCI expansion kit                                                        |
| AX96207<br>(P/N: 83962071000E) | 2 x PCI expansion kit                                                                     |

### Optional

|                                                |                                               |
|------------------------------------------------|-----------------------------------------------|
| 2.5" SATA HDD/SSD                              |                                               |
| DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB |                                               |
| 826G9620010E /<br>8816G9620A0E                 | IPC962-511-FL fan module kit                  |
| 826G9620020E /<br>8816G9621A0E                 | Wall mount bracket kit                        |
| 50906D24000E                                   | Adaptor 24V/120W, wire only                   |
| AX92320<br>(P/N: E392320100)                   | 4-port PCI Express GbE PoE communication card |
| AX92351<br>(P/N: E392351100)                   | 32-in/32-out isolated 1.5KV DIO module        |

## Dimensions



## Power Protection

### DC Version

|                                |
|--------------------------------|
| OVP (over voltage protection)  |
| SCP (short circuit protection) |
| OCP (over current protection)  |

## Packing List

- 1 x IPC962-511-FL unit
- 1 x Driver CD
- 1 x Screw pack
- 4 x Foot pad
- 1 x CPU grease
- 1 x Terminal block
- 1 x Remote power switch cable
- 1 x Holder bracket



## Assured Systems

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