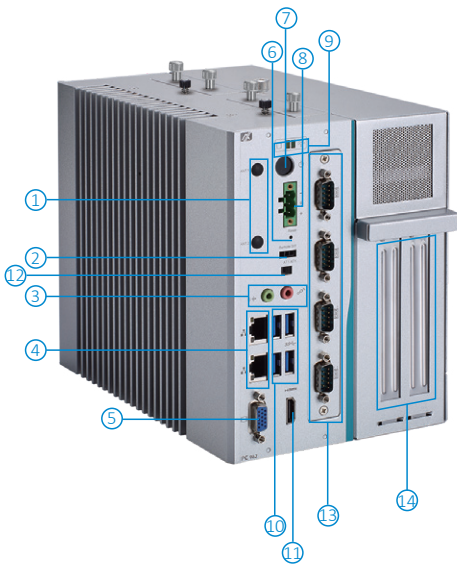


# IPC962-512-FL

2-slot Fanless Industrial System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 or Celeron® Processor, Intel® Q170, Front-access I/O, and PCIe & PCI Slots



1. 2 x Antenna opening

2. Remote switch

3. Mic-in & Line-out

4. 2 x LAN

5. VGA

6. Reset switch

7. Power on/off button with LED

8. Terminal block

9. HDD & power LEDs

10. 4 x USB 3.0

11. HDMI

12. AT/ATX quick switch
13. Extension system I/O module

(1) AX93511

(2) AX93512

(3) AX93516

(4) AX93519

(5) Blank I/O cover

14. Expansion interface

(1) AX96205

(2) AX96206

(3) AX96207

## Features

- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 or Celeron® processor, up to 65W (Kaby Lake/Skylake)\*
- Intel® Q170 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 ECM BIOS setting
- Supports 2 swappable 2.5" HDD & RAID 0,1
- Supports WLAN module & antenna (optional)
- Supports TPM 2.0



▲ Rear view

## Specifications

|                |                                                                                                                                                                                                                                                                    |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard Color | Silver                                                                                                                                                                                                                                                             |
| Construction   | Aluminum extrusion heavy-duty cold-rolled steel                                                                                                                                                                                                                    |
| Processor      | CPU Level7th/6th gen Intel® Core™ i7/i5/i3 or Celeron® processor, up to 65W (Kaby Lake/Skylake)*                                                                                                                                                                   |
| System         | ChipsetIntel® Q170                                                                                                                                                                                                                                                 |
| System Memory  | 2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB                                                                                                                                                                                                                 |
| System I/O     | 1 x Power on/off button with LED (ATX)<br>1 x Remote switch<br>1 x Reset switch<br>1 x 3-pin terminal block<br>1 x AT/ATX selectable switch<br>2 x 10/100/1000 Mbps Ethernet (Intel® I210-AT)<br>4 x USB 3.0<br>1 x HDMI<br>1 x VGA<br>1 x Audio (Mic-in/Line-out) |
| TPM            | TPM 2.0                                                                                                                                                                                                                                                            |

## Specifications

|                       |                                                                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Expansion Interface   | AX96205: 1 PCIe x16 + 1 PCIe x4<br>AX96206: 1 PCIe x16 + 1 PCI<br>AX96207: 2 PCI (support by project)<br>1 x Full-size PCI Express Mini Card slot with SIM slot (USB & PCIe interface) |
| Storage               | 2 x 2.5" swappable HDD (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                                                                                                                                                                                |

\* Please refer to the user manual for the list of CPU support.

## Ordering Information

### System

|                                       |                                                                                                                     |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| IPC962-512-DC-FL<br>(P/N: E26G962101) | 2-slot fanless industrial system with 7th/6th gen Intel® Core™ i7/i5/i3 processor and Intel® Q170, front-access I/O |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------|

### Extension System I/O Module & Expansion Interface

|                                |                                                                                                             |
|--------------------------------|-------------------------------------------------------------------------------------------------------------|
| AX93511<br>(P/N: E29R127122)   | 4 x RS-232/422/485 I/O module (default RS-232)                                                              |
| AX93512<br>(P/N: E29R127123)   | 2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module (support by project) |
| AX93516<br>(P/N: E29R127124)   | 4 x RS-232/422/485 with isolated 2kVDC module (support by project)                                          |
| AX93519<br>(P/N: E29R127125)   | 1 x 10/100/1000 Mbps (Intel® I210-AT) Ethernet, 2 x RS-232/422/485 and 2 x USB 3.0 module                   |
| 726G9620610E                   | Blank I/O cover                                                                                             |
| AX96205<br>(P/N: 83962051000E) | 1 x PCIe x16 + 1 x PCIe x4 expansion kit                                                                    |
| AX96206<br>(P/N: 83962061000E) | 1 x PCIe x16 + 1 x PCI expansion kit                                                                        |
| AX96207<br>(P/N: 83962071000E) | 2 x PCI expansion kit (support by project)                                                                  |

### Optional Accessory

|                                                |                              |
|------------------------------------------------|------------------------------|
| 2.5" SATA HDD/SSD                              |                              |
| DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB |                              |
| E29R127127                                     | IPC962-512-FL fan module kit |
| E29R127129                                     | Wall mount bracket kit       |
| 509000001500                                   | Adaptor 24V/120W, wire only  |
| 50906A24000E                                   | Adapter 24V/230W, wire only  |

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## Power Protection

### DC Version

OVP (over voltage protection)  
OCP (over current protection)  
Reverse Protection

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## Packing List

1 x IPC962-512-FL unit  
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

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## Dimensions

