

# IPC974-519

4-slot Industrial System with LGA1151 Socket Intel® Xeon® E3 v5, 7th/6th Gen Intel® Core™ i7/i5/i3 or Celeron® Processor, Intel® C236, Front-access I/O, PCIe, and PCI Slots



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|--------------------------------------------------------------------------------------------|------------------------------|
| 1. Extension Window<br>(by project request)                                                | 4. 2 x Antenna opening       |
| 2. Extension system I/O module<br>(1) AX93511<br>(2) AX93512<br>(3) AX93516<br>(4) AX93519 | 5. 2 x USB 2.0               |
| (5) Blank I/O cover                                                                        | 6. 2 x LAN                   |
| 3. Expansion interface<br>(1) AX96410<br>(2) AX96411                                       | 7. 1 x VGA                   |
|                                                                                            | 8. 4 x USB 3.0               |
|                                                                                            | 9. 1 x HDMI                  |
|                                                                                            | 10. 1 x HDD access/power LED |

## Features

- LGA1151 socket Intel® Xeon® E3 v5, 7th/6th gen Intel® Core™ i7/i5/i3 or Celeron® processor, up to 80W (Kaby Lake/Skylake)
- Intel® C236 chipset
- Supports 4 expansion slots for full-size add-in cards
- Supports system power on delay function
- -10°C to +70°C operating temperature range
- Supports ECM BIOS setting
- Supports Intel® RAID
- Supports NVIDIA® GPU, up to 300W TDP
- Supports TPM 2.0
- Supports Intel® AMT 11.0



▲ Rear view

## Specifications

|                |                                                                                                                                                                                                                                                                                                                              |                                                                                                            |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Standard Color | Sliver black                                                                                                                                                                                                                                                                                                                 |                                                                                                            |
| Construction   | Aluminum extrusion heavy-duty cold-rolled steel                                                                                                                                                                                                                                                                              |                                                                                                            |
| Processor      | CPU Level                                                                                                                                                                                                                                                                                                                    | Intel® Xeon® E3 v5, 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, up to 80W (Kaby Lake/Skylake)* |
| System         | Chipset                                                                                                                                                                                                                                                                                                                      | Intel® C236                                                                                                |
| System Memory  | 2 x DDR4-2133/2400 ECC/non-ECC 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 4-pin terminal block<br>1 x AT/ATX selectable switch<br>1 x 10/100/1000 Mbps Ethernet (Intel® I210-AT)<br>1 x 10/100/1000 Mbps Ethernet (Intel® I219-LM)<br>4 x USB 3.0<br>2 x USB 2.0<br>1 x HDMI<br>1 x VGA<br>1 x Audio (Line-out) |                                                                                                            |
| TPM            | TPM 2.0                                                                                                                                                                                                                                                                                                                      |                                                                                                            |

## Specifications

|                       |                                                                                                                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Expansion Interface   | AX96410: 1 x PCIe x16 + 3 x PCIe x4<br>AX96411: 1 x PCIe x16 + 1 x PCIe x4 + 2 x PCI (support by project)<br>1 x Full-size PCI Express Mini Card slot with SIM slot (USB & PCIe interface) for the extension window |
| Storage               | 1 x HDD drive bay (default, with support for 2 x 2.5" HDD/SSD)<br>1 x HDD drive bay (optional, with additional 2 x 2.5" HDD/SSD) (7/9.5 mm height)                                                                  |
| System Indicators     | 1 x HDD access/power LED                                                                                                                                                                                            |
| Power Input           | Type: ATX/AT<br>Input: 24 VDC (uMin=19V/uMax=30V)                                                                                                                                                                   |
| Operating Temperature | -10°C to +70°C (+14°F up to +149°F) with W.T. HDD/SSD*                                                                                                                                                              |
| Storage Temperature   | -20°C to +80°C (-4°F to +176°F)                                                                                                                                                                                     |
| Humidity              | 10% to 90%, non-condensing                                                                                                                                                                                          |
| Dimensions            | 188.14 mm (7.40") (W) x 192 mm (7.56") (H) x 317 mm (12.46") (D)                                                                                                                                                    |
| Weight (net/gross)    | 5.9 kg (13 lb)/7.3 kg (16.09 lb)                                                                                                                                                                                    |
| Certifications        | CE (EN 61000-6-4/EN 61000-6-2), FCC                                                                                                                                                                                 |
| OS support            | Win 7, Win 10, Linux                                                                                                                                                                                                |

\* Please refer to the user manual for the list of CPU support and the operating temperature of the system.

## Ordering Information

### System

|                                            |                                                                                                                                                                     |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IPC974-519-C236-DC-FL<br>(P/N: E26G974100) | 4-slot fanless industrial system with Intel® Xeon® E3 v5, 7th/6th gen Intel® Core™ i7/i5/i3 or Celeron® processor, Intel® C236 PCH, ECC memory and front-access I/O |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

|                                |                                                                                                             |
|--------------------------------|-------------------------------------------------------------------------------------------------------------|
| AX93511<br>(P/N: E29R127101)   | 4 x RS-232/422/485 module (default RS-232)                                                                  |
| AX93512<br>(P/N: E29R127102)   | 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: E29R127103)   | 4 x RS-232/422/485 with isolated 2kVDC module (support by project)                                          |
| AX93519<br>(P/N: E29R127104)   | 1 x 10/100/1000 Mbps (Intel® I210-AT) Ethernet<br>2 x RS-232/422/485 & 2 x USB 3.0 module                   |
| 726G9740690E                   | Blank I/O cover                                                                                             |
| AX96410<br>(P/N: 83964101000E) | 1 x PCIe x16 + 3 x PCIe x4                                                                                  |
| AX96411<br>(P/N: 83964111010E) | 1 x PCIe x16 + 1 x PCIe x4 + 2 x PCI (support by project)                                                   |

### Optional Accessory

|                                           |                                                |
|-------------------------------------------|------------------------------------------------|
| 2.5" SATA HDD/SSD                         |                                                |
| DDR4-2133 ECC/non-ECC SO-DIMM, up to 32GB |                                                |
| E29R127139                                | IPC974-519 fan module kit                      |
| E29R127140                                | Wall mount bracket kit                         |
| E398268103                                | 300W power board and 2 cables for Graphic card |

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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 IPC974-519 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 Extension holder bracket kit

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## Dimensions

