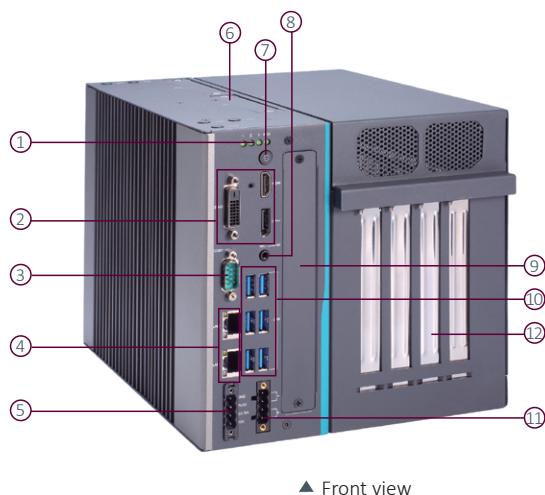


# IPC964A NEW

4-slot Industrial System with LGA1700 Socket 14th/13th/12th Gen Intel® Core™ i9/i7/i5/i3 or Celeron® Processor, Intel® Q670E, Front-access I/O, and 4 PCIe & PCI Slots



1. 1 x HDD/SSD access LED & 3 x user's LED
2. DVI-D, DisplayPort++, HDMI
3. RS-232/422/485
4. 2 x LAN
5. 4-pin terminal block for ignition control, remote power, and remote LED
6. 2 x HDD/SSD bay
7. Switch for power on/off with LED
8. Mic-in & Line-out
9. Extension system I/O window
10. 6 x USB
11. 4-pin terminal block for DC input
12. 4 PCIe slots



## Features

- Intelligent power management: Ignition and USB power on/off control
- Optional extension system I/O module
- Supports Intel® RAID
- EN 61000-6-2 certified

## Specifications

|                  |                                                 |                                                                                                                                                                    |
|------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard Color   | Silver & black                                  |                                                                                                                                                                    |
| Construction     | Aluminum extrusion heavy-duty cold-rolled steel |                                                                                                                                                                    |
| Processor System | CPU Level                                       | 14th/13th/12th Gen Intel® Core™ processor, up to 65W*                                                                                                              |
|                  | Chipset                                         | Intel® Q670E                                                                                                                                                       |
| System Memory    | 262-pin DDR5 4800 non-ECC SO-DIMM, up to 96GB** |                                                                                                                                                                    |
| System I/O       | Ethernet                                        | 1 x 2.5GbE LAN (Intel® I226-V)<br>1 x GbE LAN with Intel® AMT (Intel® I219-LM)                                                                                     |
|                  | Serial                                          | 1 x RS-232/422/485 (default RS-232, COM1)                                                                                                                          |
|                  | USB                                             | 6 x USB 3.2 Gen2 (10G) Type-A<br>1 x USB 2.0 (internal, up to 30 mm) 180D Type-A                                                                                   |
|                  | Display                                         | 1 x DisplayPort++ with support for 4096 x 2160 resolution<br>1 x HDMI with support for 4096 x 2160 resolution<br>1 x DVI-D with support for 1920 x 1200 resolution |
|                  | Audio                                           | 1 x 3.5 mm jack for Mic-in and Line-out                                                                                                                            |
|                  |                                                 |                                                                                                                                                                    |
|                  |                                                 |                                                                                                                                                                    |

## Specifications

|                        |                                                                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TPM                    | TPM 2.0                                                                                                                                                                                                       |
| Expansion Interface    | UP to 350W power for add-in card, 1 x USB 2.0 (180D type A)<br>1 PCIe x16 Gen4 + 1 PCIe x8 (x4 signal) Gen3 + 2 PCIe x4 Gen4<br>1 x full-size PCI Express Mini Card slot (USB & PCIe interface) with SIM slot |
| Storage                | 2 x 2.5" HDD/SSD bay (7/9.5/15 mm height)<br>1 x M.2 Key M 2280 socket (PCIe x4 Gen4)                                                                                                                         |
| System Indicators      | 1 x HDD/SSD access LED<br>3 x user's LED                                                                                                                                                                      |
| Power Input            | Input: 18 to 36 VDC<br>1 x switch for power on/off with LED (default ATX)<br>1 x 4-pin terminal block for DC input<br>1 x 4-pin terminal block for ignition control, remote power, and remote LED             |
| Operating Temperature  | -20°C to +60°C with 14th/13th/12th Gen Intel® Core™ processor and industrial wide-temp SSD, 0.7m/s airflow***                                                                                                 |
| Storage Temperature    | -20°C to +80°C                                                                                                                                                                                                |
| Relative Humidity      | 10% to 90% relative humidity, non-condensing                                                                                                                                                                  |
| Vibration              | IEC 60068-2-64 (with SSD: 1Grms, random, and 5 to 500 Hz)<br>MIL-STD-810H, Method 514.8, and Category 20                                                                                                      |
| Shock                  | IEC 60068-2-27 (with SSD: 50G, half-sine, 11 ms duration)<br>MIL-STD-810H, Method 516.8, and Procedure I                                                                                                      |
| Dimensions (W x D x H) | 205 x 192 x 260 mm (8.07" x 7.56" x 10.24")                                                                                                                                                                   |
| Weight (net/gross)     | 5.6 kg (12.35 lb)/6.7 kg (14.77 lb)                                                                                                                                                                           |
| Certifications         | CE (EN 61000-6-4/EN 61000-6-2), FCC                                                                                                                                                                           |
| OS Support             | Win 10, Win 11, Win 10 IoT, Win 11 IoT, and Linux OS                                                                                                                                                          |

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

\*\*Intel® Core™ 14th Gen processors support a maximum single SO-DIMM capacity of 48GB.

\*\*\*CPU power settings can be adjusted in the BIOS to optimize performance and operating temperature.

## Ordering Information

### System

|                                     |                                                                                                                 |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| IPC964A-Q-E1F5<br>(P/N: E26G964A00) | Industrial system with Intel® Q670E, 4 x PCIe slots and blank extension system I/O cover; without Axiomtek logo |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------|

### Optional Module

|                              |                                                                                                                                                                                         |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EIO142                       | 1 x PCIe x16 Gen4 + 1 PCIe x4 Gen4 + 2 PCI                                                                                                                                              |
| AX93511<br>(P/N: E29R127101) | 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 (project-based support)                                                                          |
| AX93516                      | 4 x RS-232/422/485 with isolated 2kVDC module (project-based support)                                                                                                                   |
| AX93519                      | 1 x 1GbE LAN + 2 x RS-232/422/485 + 2 x USB module (project-based support)                                                                                                              |
| MIO160                       | 6 x serial port (4-wire RS-232: TX/RX/RTS/CTS)/422/485 isolated 1.5kVDC & 2 CAN bus with isolated 1.5kVDC module (supporting the CAN 2.0A and CAN 2.0B protocol, project-based support) |
| MIO530                       | 1 x M.2 Key E 2230 socket + 1 x M.2 Key B 3042/3050/3052/3060 socket with SIM slot for 5G module or selected LTE module (project-based support)                                         |

### Optional Accessory

|                      |                                                                      |
|----------------------|----------------------------------------------------------------------|
| 2.5" SATA HDD/SSD    |                                                                      |
| DDR5 non-ECC SO-DIMM |                                                                      |
| E29R127110           | Wall mount bracket kit                                               |
| E29R127132           | Internal fan module kit                                              |
|                      | External fan module kit (project-based support)                      |
| 59482680710E         | AX98268 power cable, 8P (4.2) / 6+2P (4.2), L=20 cm                  |
| 50906A24000E         | AC to DC adapter 24V 230W Wire type                                  |
|                      | 500W, 24V AC/DC power PSU with US power cord (project-based support) |
|                      | 750W, 24V AC/DC power PSU with US power cord (project-based support) |

## Power Protection

DC Version  
OVP (over voltage protection)  
OCP (over current protection)  
Reverse protection

## Packing List

- 1 x IPC964A unit
- 1 x screw pack
- 4 x foot pad
- 1 x CPU grease
- 1 x 4-pin terminal block for DC power input
- 1 x 4-pin terminal block for ignition
- 1 x extension holder bracket kit

## Dimensions

