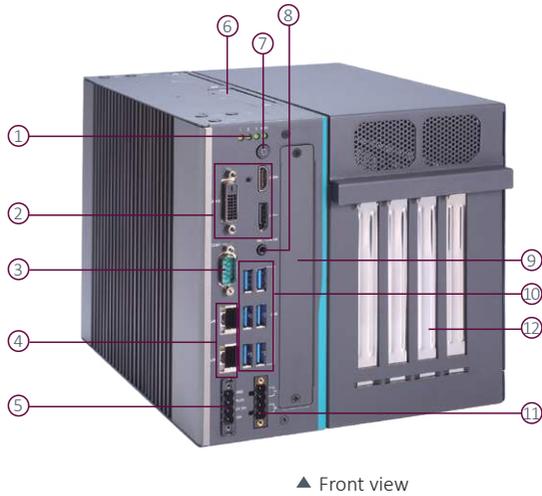


# IPC964A NEW

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



▲ Front view



▲ Rear view

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) 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 Gen 2 (10G) Type-A	
		1 x USB 2.0 (internal, up to 30 mm) 180D Type-A	
	Display	1 x DisplayPort++ with support for 4096 x 2160 resolution	
		1 x HDMI with support for 4096 x 2160 resolution	
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) 1 PCIe x16 Gen 4 + 1 PCIe x8 (x4 signal) Gen 3 + 2 PCIe x4 Gen 4 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) 1 x M.2 Key M 2280 socket (PCIe x4 Gen 4)
System Indicators	1 x HDD/SSD access LED 3 x user's LED
Power Input	Input: 18 to 36 VDC 1 x switch for power on/off with LED (default ATX) 1 x 4-pin terminal block for DC input 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) MIL-STD-810H, Method 514.8, and Category 20
Shock	IEC 60068-2-27 (with SSD: 50G, half-sine, 11 ms duration) 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 (P/N: E26G964A00)	Industrial system with Intel® Q670E, EIO141 and blank extension system I/O cover; without Axiomtek logo
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### Optional Module

EIO122	1 x PCIe Gen 4 x16 + 1 x PCI riser card (project-based support)
AX93511 (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)
5946G962000E	Graphics card power cable ATX4P/BTX6 + 2P, L=200 mm
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)

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## Power Protection

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

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## Packing List

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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

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## Dimensions

