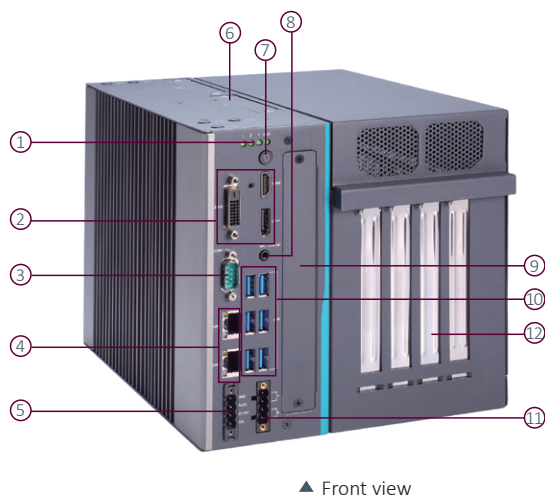


IPC964A NEW

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

- | | |
|---|---|
| <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> 9. Extension system I/O module <ol style="list-style-type: none"> (1) AX93511 (2) AX93512 (3) AX93516 (4) AX93519 (5) MIO160 (6) Blank I/O cover 10. 6 x USB 11. 4-pin terminal block for DC input <ol style="list-style-type: none"> (1) EIO141 (2) EIO142 |
|---|---|



Features

- Intelligent power management: Ignition and USB power on/off control
- Optional extension system I/O module
- Optional 5G network
- 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 Gen2 (10G) Type-A 1 x USB 2.0 (Internal, up to 30mm) 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) EIO141: 1 PCIe x16 Gen4 + 1 PCIe x8 (x4 signal) Gen3 + 2 PCIe x4 Gen4 EIO142: 1 PCIe x16 Gen4 + 1 PCIe x4 Gen4 + 2 PCI 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 Gen4)
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 air flow***
Storage Temperature	-20°C to +80°C
Humidity	10% to 90%, non-condensing
Vibration	IEC 60068-2-64 (with SSD: 1Grms, random, 5 to 500 Hz) MIL-STD-810H, Method 514.8, Category 20
Shock	IEC 60068-2-27 (with SSD: 50G, half sine, 11 ms duration) MIL-STD-810H, Method 516.8, Procedure I
Dimensions	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

*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
IPC964A-Q-E2F5 (P/N: E26G964A01)	Industrial system with Intel® Q670E, EIO142 and blank extension system I/O cover; without Axiomtek logo

Optional Module

AX93511 (P/N: E29R127101)	4 x RS-232/422/485 module (default RS-232)
AX93512 (P/N: E29R127102)	2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module (project-based support)
AX93516 (P/N: E29R127103)	4 x RS-232/422/485 with isolated 2kVDC module (project-based support)
AX93519 (P/N: E29R127104)	1 x 1GbE LAN + 2 x RS-232/422/485 + 2 x USB module
MIO160 (P/N: E39Q160100)	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 CAN2.0B protocol)
MIO530 (P/N: E39Q530100)	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

Ordering Information

Optional Accessory

2.5" SATA HDD/SSD	
DDR5 non-ECC SO-DIMM	
E29R127110	Wall mount bracket kit
E29R127132	Internal fan module kit
E29R127133	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
E29R127117	500W, 24V AC/DC power PSU with US power cord
E29R127116	750W, 24V AC/DC power PSU with US power cord

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

