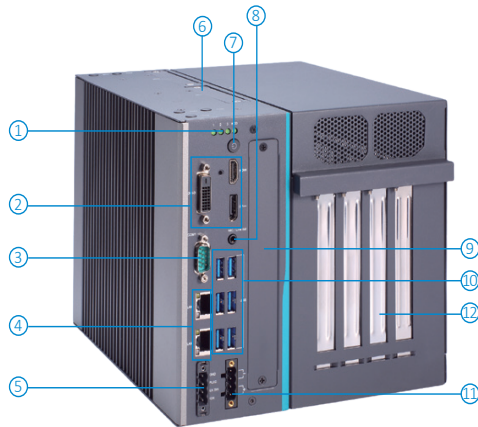


IPC964A NEW

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



▲ Front view

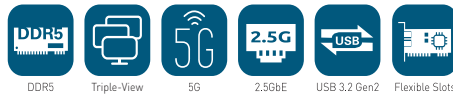
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|---|---------------------------------------|
| 1. 1 x HDD/SSD access LED & 3 x user's LED | 9. Extension system I/O module |
| 2. DVI-D, DP++, HDMI | (1) AX93511 |
| 3. RS-232/422/485 | (2) AX93512 |
| 4. 2 x LAN | (3) AX93516 |
| 5. 4-pin terminal block for ignition control, remote power and remote LED | (4) AX93519 |
| 6. 2 x HDD/SSD bay | (5) MIO160 |
| 7. Switch for power on/off w/LED | (6) Blank I/O cover |
| 8. Mic-in & Line-out | 10. 6 x USB |
| | 11. 4-pin terminal block for DC input |
| | 12. Expansion interface |
| | (1) EIO141 |
| | (2) EIO142 |



▲ Rear view

Features

- Intelligent power management: Ignition, USB power on/off control
- Optional extension system I/O module
- Optional 5G network
- Supports Intel RAID
- EN61000-6-2 certified



Specifications

Standard Color	Silver & black	
Construction	Aluminum extrusion heavy-duty cold-rolled steel	
Processor System	CPU Level	13th/12th gen Intel® Core™ processor, up to 65W*
	Chipset	Intel® Q670E
System Memory	2 x DDR5 4800/4000 SO-DIMM, 262-pin up to 64GB	
System I/O	Ethernet	1 x 2.5GbE LAN (Intel® I226-V) 1 x 1GbE LAN with Intel® AMT (Intel® I219-LM)
	Serial	1 x RS-232/422/485 (default RS-232, COM1)
	USB	6 x USB 3.2 Gen2x1 (10G) type A 1 x USB 2.0 (Internal, up to 30mm) 180D type A
	Display	1 x DisplayPort++ with 4096 x 2160 resolution supported 1 x HDMI with 4096 x 2160 resolution supported 1 x DVI-D with 1920 x 1200 resolution supported
	Audio	1 x 3.5mm jack for Mic-in and Line-out
	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) w/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)	

Specifications

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 TB for DC input 1 x 4-pin TB for ignition control, remote power and remote LED
Operating Temperature	-20°C to +60°C with 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 STD, random, 5 to 500 Hz, 1 hr/axis)
Shock	IEC 60068-2-27 (with SSD: 50G, half sine, 11 ms duration)
Dimensions	205 mm (8.07") x 192 mm (3.62") x 260 mm (10.24")
Weight (net/gross)	5.6 kg/6.7 kg
Certifications	CE (EN 61000-6-4/EN 61000-6-2)

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

Ordering Information

System

IPC964A-Q-E1F5 (P/N: E26G964A00)	Industrial system with Intel® Q670E, EIO141 and blank extension system I/O cover; w/o Axiomtek logo
IPC964A-Q-E2F5 (P/N: E26G964A01)	Industrial system with Intel® Q670E, EIO142 and blank extension system I/O cover; w/o Axiomtek logo

Optional Module

AX93511 (P/N: 8816G974EA0E)	4 x RS-232/422/485 module (default RS-232)
AX93512 (P/N: 8816G974FA0E)	2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module
AX93516 (P/N: 8816G974GA0E)	4 x RS-232/422/485 with isolated 2kVDC module
AX93519 (P/N: 8816G974HA0E)	1 x 1GbE LAN + 2 x RS-232/422/485 + 2 x USB module
MIO160 (P/N: TBC)	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 (supports 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 w/SIM slot for 5G module or selected LTE module

Optional Accessory

2.5" SATA HDD/SSD	
DDR5 4800/4000 SO-DIMM	
886G9501EA0E	Wall mount bracket kit
8816G9643A0E	Internal fan module kit
8816G9644A0E	External fan module kit
5946G962000E	Graphics card power cable ATX4P/BTX6 + 2P, L=200mm
50906A24000E	230 wire adapter
8816G974IA0E	500W, 24V AC/DC power PSU w/ US power cord

Power Protection

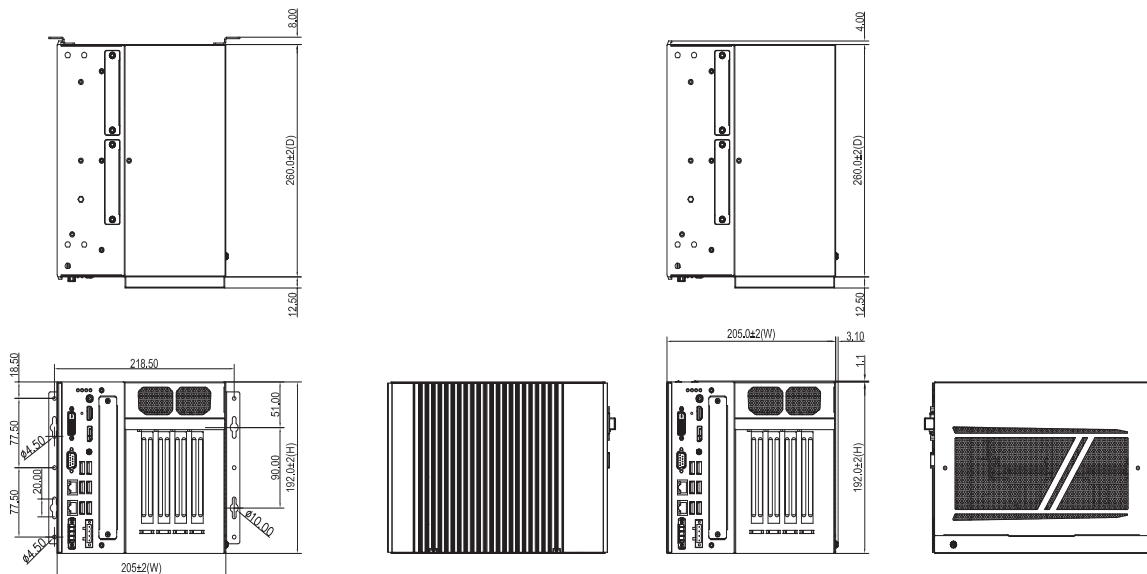
DC Version
OVP (over voltage protection)
OCP (over current protection)
Reverse Protection

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

Dimensions

Option-wall mount



Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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