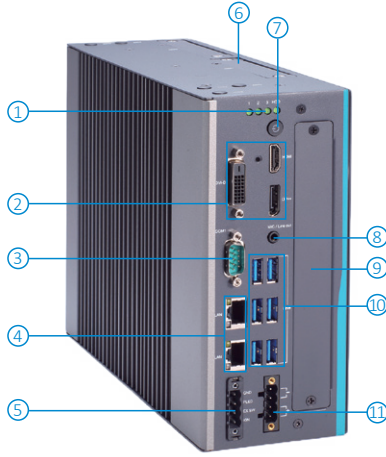


# IPC960A NEW

Fanless Industrial System with LGA1700 Socket 13th/12th Gen Intel® Core™ i7/i5/i3 or Celeron® Processor, Intel® H610E/Q670E, and Front-access I/O

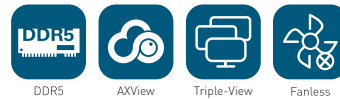


▲ Front view

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>1. 1 x HDD/SSD access LED &amp; 3 x user's LED</li> <li>2. DVI-D, DP++, HDMI</li> <li>3. RS-232/422/485</li> <li>4. 2 x LAN</li> <li>5. 4-pin terminal block for ignition control, remote power and remote LED</li> <li>6. 2 x HDD/SSD bay</li> <li>7. Switch for power on/off w/LED</li> <li>8. Mic-in &amp; Line-out</li> </ul> | <ul style="list-style-type: none"> <li>9. Extension system I/O module                             <ul style="list-style-type: none"> <li>(1) AX93511</li> <li>(2) AX93512</li> <li>(3) AX93516</li> <li>(4) AX93519</li> <li>(5) MIO160</li> <li>(6) Blank I/O cover</li> </ul> </li> <li>10. 6 x USB</li> <li>11. 4-pin terminal block for DC input</li> </ul> |
|--|---|

## Features

- Fanless embedded system
- Optional extension system I/O module
- Optional 5G network (Q670E)
- Intelligent power management: Ignition, USB power on/off control
- Supports Intel RAID (Q670E)
- EN61000-6-2 certified
- Optional DIN-rail, bookshelf and wall mount kits



▲ Rear view

## Specifications

Standard Color	Silver & black	
Construction	Aluminum extrusion heavy-duty cold-rolled steel	
Processor	CPU Level	13th/12th gen Intel® Core™ processor, up to 65W*
System	Chipset	Intel® H610E/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 (Intel® 1219-LM); with Intel AMT (Q670)
	Serial	1 x RS-232/422/485 (default RS-232, COM1)
	USB	Intel® H610E: 2 x USB 3.2 Gen2x1 (10G) type A 2 x USB 3.2 Gen1x1 (5G) type A 2 x USB 2.0 2 x USB 2.0 Type A Intel® Q670E: 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	1 x Full-size PCI Express Mini Card slot (USB & PCIe interface) with SIM slot	

## Specifications

Storage	Intel® H610E: 2 x 2.5" HDD/SSD bay (7/9.5/15 mm height) Intel® Q670E: 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 and Ignition Control	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: 3Grms STD, random, 5 to 500 Hz, 1 hr/axis)
Shock	IEC 60068-2-27 (with SSD: 50G, half sine, 11 ms duration)
Dimensions	83.5 mm (3.29") x 192 mm (7.56") x 260 mm (10.24")
Weight (net/gross)	4.2 kg/5.2 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

IPC960A-H-F5	Industrial system with Intel® H610E and blank extension system I/O cover; w/o Axiomtek logo
IPC960A-Q-F5 (P/N: E26G960A00)	Industrial system with Intel® Q670E 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: 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 (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 (Q670E)

### Optional Accessory

2.5" SATA HDD/SSD	
DDR5 4800/4000 MT/s un-buffered SO-DIMM, up to 64GB	
886G9501EA0E	Wall mount bracket kit
886G95018A0E	DIN-rail kit
886G960A0A0E	Bookshelf kit
509000001500	120W wire adapter
50906A24000E	230 wire adapter

---

## Power Protection

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

---

## Packing List

1 x IPC960A 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 Remote power switch cable  
1 x Extension holder bracket kit

---

## Dimensions

Option-wall mount

