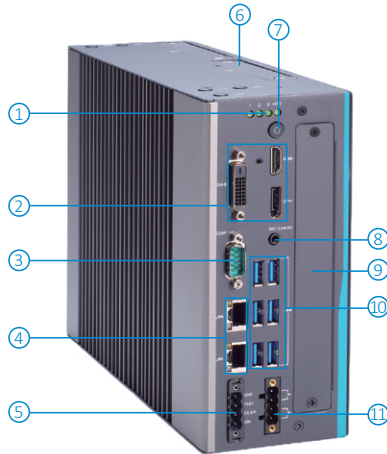


IPC960A NEW

Fanless Industrial System with LGA1700 Socket 13th/12th Gen Intel® Core™ i9/i7/i5/i3 or Celeron® Processor, Intel® H610E/Q670E, and Front-access I/O



▲ Front view

- | | |
|---|---------------------------------------|
| 1. 1 x HDD/SSD access LED & 3 x user's LED | 9. Extension system I/O module |
| 2. DVI-D, DisplayPort++, 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. Power on/off button with LED | (6) Blank I/O cover |
| 8. Mic-in & Line-out | 10. 6 x USB |
| | 11. 4-pin terminal block for DC input |

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 mounting kits: DIN-rail, bookshelf, and wall mount



DDR5



Triple-View



Fanless



▲ 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 GbE 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 Gen2 (10G) Type-A 2 x USB 3.2 Gen1 (5G) Type-A 2 x USB 2.0 Type-A Intel® Q670E: 6 x USB 3.2 Gen2 (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 1.4b 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
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) with support for RAID 0,1 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 Power on/off button 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)
IP Rating	IP40 rating with connector cables installed
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), FCC
OS Support	Win 10, Win 11, Win 10 IoT, Win 11 IoT, Linux OS

* 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 (P/N: E26G960A01)	Industrial system with Intel® H610E and blank extension system I/O cover; without Axiomtek logo
IPC960A-Q-F5 (P/N: E26G960A00)	Industrial system with Intel® Q670E and blank extension system I/O cover; without 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 1.5kVDC isolation and 8-in/8-out DIO module with 1.5kVDC isolation (project-based support)
AX93516 (P/N: 8816G974GA0E)	4 x RS-232/422/485 with 2kVDC isolated module (project-based support)
AX93519 (P/N: 8816G974HA0E)	1 x GbE 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), RS-422/485 with 1.5kVDC isolation and 2 CANbus ports with 1.5kVDC isolated module (with support for 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 (Q670E) (project-based support)

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 (project-based support)
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 powe input
- 1 x 4-pin terminal block for Ignition
- 1 x Remote power switch cable

Dimensions

Wall mount (optional)

