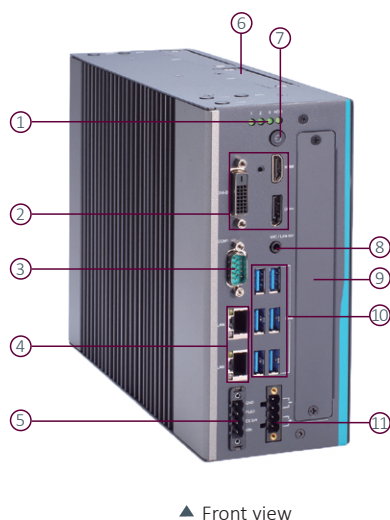


IPC960A NEW

Fanless Industrial System with LGA1700 Socket 14th/13th/12th Gen Intel® Core™ i9/i7/i5/i3 or Celeron® Processor, Intel® H610E/Q670E, and Front-access I/O



▲ Front view



▲ Rear 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

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

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® H610E/Q670E
System Memory	2 x 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 (Intel® 1219-LM) with Intel® AMT (Q670)
	Serial	1 x RS-232/422/485 (default RS-232, COM 1)

Specifications

System I/O	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	
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	Input: 18 to 36 VDC 1 x Power on/off button 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: 3Grms, 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	
IP Rating	IP40 rating with connector cables installed	
Dimensions	83.5 x 192 x 260 mm (3.29" x 7.56" x 10.24")	
Weight (net/gross)	4.2 kg (9.26 lb)/5.2 kg (11.47")	
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 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

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: E29R127101)	4 x RS-232/422/485 module (default RS-232)
AX93512 (P/N: E29R127102)	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: E29R127103)	4 x RS-232/422/485 with 2kVDC isolated module (project-based support)
AX93519 (P/N: E29R127104)	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 CAN 2.0B 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

Power Protection

Packing List

- ## Dimensions

