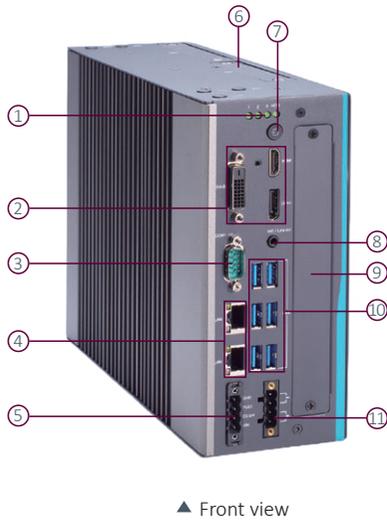


IPC960A NEW

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

- | | |
|--|---|
| <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. Power on/off button 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 |
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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)

Ordering Information

Optional Accessory

2.5" SATA HDD/SSD	
DDR5 non-ECC SO-DIMM	
E29R127110	Wall mount bracket kit
E29R127106	DIN-rail kit
E29R127105	Bookshelf kit (project-based support)
509000001500	AC to DC adapter 24V 120W Wire type
50906A24000E	AC to DC adapter 24V 230W Wire type

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

Dimensions

Wall mount (optional)

