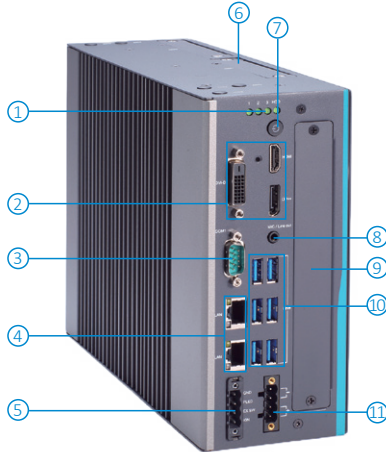


IPC960A NEW

Fanless Industrial System with LGA1700 Socket 12th Gen Intel® Core™ 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, DP++, HDMI | (1) AX93511 |
| 3. RS-232/422/485 | (2) AX93512 |
| 4. 2 x LAN | (3) AX93516 |
| 5. 4-pin terminal block (5.08 mm) for ignition control, remote power and remote LED | (4) AX93519 |
| 6. 2 x HDD/SSD tray | (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 |

Features

- Fanless embedded system
- Optional extension system I/O window
- Optional 5G network (Q670E)
- USB power on/off control via BIOS setting
- Intelligent power management- ACC ignition
- EN 61000-6-2 certified
- Supports Intel® RST



▲ Rear view

Specifications

Standard Color	Silver & black		
Construction	Aluminum extrusion heavy-duty cold-rolled steel		
Processor System	CPU Level	12th gen Intel® Core™ processor, up to 65W*	
	Chipset	Intel® H610E/Q670E	
System Memory	2 x DDR5 4800/4000 SO-DIMM, up to 64GB		
System I/O	Ethernet	1 x 2.5GbE LAN (Intel® I226-LM) 1 x RJ-45 GbE LAN (Intel® I219-LM) with Intel® AMT	
	Serial	1 x RS-232/422/485 (default RS-232, COM1)	
	USB	Intel® H610E:	4 x USB 3.2 Gen2x1 (10G) type A 2 x USB 2.0 Type A
		Intel® Q670E:	6 x USB 3.2 Gen2x1 (10G) type A 1 x USB 2.0 (Q670E, internal, up to 30mm) 180D type A
	Display	1 x DisplayPort++ with 4096 x 2304 resolution supported 1 x HDMI with 4096 x 2304 resolution supported 1 x DVI-D with 1920 x 1200 resolution supported	
Audio	1 x 3.5mm jack for Mic-in and Line-out		
Extension System I/O Module	AX93511	4 x RS-232/422/485 module (default RS-232)	
	AX93512	2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module	
	AX93516	4 x RS-232/422/485 with isolated 2kVDC module	
	AX93519	1 x 1GbE LAN + 2 x RS-232/422/485 + 2 x USB 2.0 module	
	MIO160	6 x RS-232 (4-wire: TX/RX/RTS/CTS)/422/485 with isolated 2.5kVDC & 2 x CAN bus with isolated 2.5kVDC module	
TPM	TPM 2.0		

Specifications

Expansion Interface	Intel® H610E: 1 x Full-size PCI Express Mini Card slot (USB & PCIe interface) with SIM slot 1 x M.2 Key E 2230 socket (optional) Intel® Q670E: 1 x Full-size PCI Express Mini Card slot (USB & PCIe interface) with SIM slot 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)
Storage	Intel® H610E: 2 x 2.5" HDD/SSD with Intel® RST supported (7/9.5/15 mm height) Intel® Q670E: 2 x 2.5" HDD/SSD with Intel® RST supported (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 (5.08 mm) for DC input 1 x 4-pin TB (5.08 mm) for ignition control, remote power and remote LED
Operating Temperature	-20°C to +70°C with 12th gen Intel® Core™ processor and W.T. HDD/SSD*
Storage Temperature	-20°C to +80°C
Humidity	10% to 90%, non-condensing
Dimensions	83.5 mm (3.29") x 192 mm (3.62") 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

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

Ordering Information

System

IPC962A-H-F6	Industrial system with Intel® H610E and blank extension system I/O cover; w/o Axiomtek logo
IPC962A-Q-F6	Industrial system with Intel® Q670E and blank extension system I/O cover; w/o Axiomtek logo

Flexible System I/O Module

AX93511 (P/N: 8816G974020E)	4 x RS-232/422/485 module (default RS-232)
AX93512 (P/N: 8816G974030E)	2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module
AX93516 (P/N: 8816G974040E)	4 x RS-232/422/485 with isolated 2kVDC module
AX93519 (P/N: 8816G974050E)	1 x 1GbE LAN (Intel® I211-AT) + 2 x RS-232/422/485 + 2 x USB 3.0 (USB 2.0 signal) module
MIO160	6 x RS-232(4-wire: TX/RX/RTS/CTS)/422/485 with isolated 2.5kVDC & 2 x CAN bus with isolated 2.5kVDC module

Optional Accessory

2.5" SATA HDD/SSD	
DDR5 4800/4000 MT/s un-buffered SO-DIMM, up to 64GB	
8816G9704AOE	Wall mount bracket kit
	Din rail kit
	Book shelf kit

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

2 x 4-pin Terminal block

1 x Remote power switch cable

1 x Extension holder bracket kit

Dimensions

Option-wall mount

