

# IPC980 Preliminary

IP67-rated Industrial System with LGA1700 Socket 14th/13th/12th Gen Intel® Core™ i9/i7/i5/i3 or Celeron® Processor, Intel® H610E, and Front-access I/O



1. 1 x DC power connector
2. Intel® I219-LM
3. 2 x Intel® I226-V
4. Power button with LED
5. 2 x USB 2.0
6. RS-232/422/485
7. Optional I/O
8. Maintenance I/O window
  - a. HDMI
  - b. 4 x USB 3.2 Gen1 (5G)



DDR5



Fanless



IP67



M12 Connector

## Features

- M12 connectors and IP67 housing
- Optional I/O for expansion
- Intelligent power management: Ignition, and USB power on/off control
- EN 61000-6-2 certified

## 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
System Memory	2 x 262-pin DDR5 4800/4000 non-ECC SO-DIMM, up to 96GB**	
System I/O	Ethernet	2 x 2.5GbE LAN (Intel® I226-V, M12 X-coded) 1 x GbE LAN (Intel® I219-LM, M12 X-coded)
	Serial	1 x RS-232 (4-wire)/RS-422/485 (default: RS-232, M12 A-coded)
	USB	4 x USB 3.2 Gen1 (5G) Type-A
		2 x USB 2.0 (M12 A-coded)
		1 x USB 2.0 (internal, up to 30 mm) 180D Type-A
TPM	Display	1 x HDMI 1.4b with 4096 x 2160 resolution supported
	TPM 2.0	

## Specifications

Expansion Interface	1 x full-size PCI Express Mini Card slot (USB & PCIe interface) with SIM slot
Storage	1 x SSD/HDD drive bay (7/9.5/15 mm height) 1 x SSD/HDD drive bay (optional, 7/9.5/15 mm height) 1 x M.2 Key M 2280 socket (PCIe x4)
Power Input and Ignition Control	Input: 18 to 36 VDC ACC ignition 1 x DC power connector (M12, A-coded) 1 x power on/off button with LED (default ATX) AT/ATX mode through BIOS setting
Operating Temperature	-40°C to +60°C with 14th/13th/12th gen Intel® Core™ processor and industrial wide-temp SSD, 0.7 m/s air flow***
Storage Temperature	-40°C to +80°C
Relative Humidity	10% to 90% relative humidity, non-condensing
Vibration	IEC 60068-2-64 2019 (with SSD: 3Grms, random, 5 to 500 Hz) MIL-STD-810H, Method 514.8, Category 20
Shock	IEC 60068-2-27 2008 (with SSD: 50G, half-sine, 11 ms duration) MIL-STD-810H, Method 516.8, and Procedure I
IP Rated	IP67
Dimensions (D x W x H)	255 x 230 x 86.5 mm (10.04" x 9.06" x 3.41")
Weight (net/gross)	4.8 kg (10.58 lb)/6.8 kg (14.99 lb)
Certifications	CE (EN 61000-6-4/EN 61000-6-2), FCC
OS Support	Windows® 10, Windows® 11, Windows® 10 IoT, Windows® 11 IoT, and Linux OS

\*Please refer to the user manual for the supported CPU list.

\*\*The Intel® Core 14th gen processors support a maximum single SO-DIMM capacity of up to 48GB.

\*\*\*CPU power settings can be adjusted in the BIOS to optimize performance and operating temperature.

## Ordering Information

### System

IPC980-H-F1	IP67-rated industrial system with Intel® 14th/13th/12th Gen Core™ processor and Intel® H610E, without Axiomtek logo
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### Optional I/O Kit

1 x RS-232 (4-wire)/RS-422/485 (default: RS-232, M12 A-coded)
2 x USB 2.0 kit (M12 A-coded)
8-bit TTL programmable DIO kit (M12 A-coded)
MIO108 PCIe Mini Card module for 2 CAN bus expansion kits, CAN2.0 A/B (M12 A-coded)

### Optional Accessory

LGA1700 socket 14th/13th/12th gen Intel® Core™ i7/i5/i3 or Celeron® processor	
2.5" SATA HDD/SSD	
2.5" SATA HDD/SSD tray (support for the 2nd HDD/SSD expansion)	
DDR5 4800/4000 non-ECC SO-DIMM	
Wall mount kit	
50966224010E	Adapter 24V 90W, M12 A code 5P FSP090AAAN3

\*Optional I/O kits, CPU, SSD, and RAM modules must be pre-assembled by Axiomtek.

Dimensions

