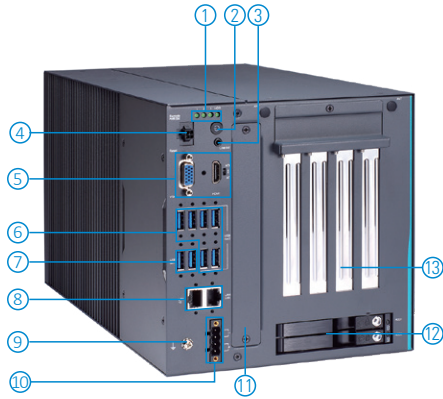


# IPC970

Industrial System with LGA1200 Socket Intel® Xeon® or 10th Gen Intel® Core™ i7/i5/i3 Processor, Intel® W480E, Front-access I/O, and PCIe Slots



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|--|--------------------------------|
| 1. 1 x HDD/SSD access LED & 3 x User's LED | 10. 4-pin terminal block       |
| 2. Power on/off button with LED            | 11. Flexible system I/O window |
| 3. Line-out                                | (1) AX93511                    |
| 4. Remote power switch & reset switch      | (2) AX93512                    |
| 5. VGA, HDMI & AT/ATX selectable switch    | (3) AX93516                    |
| 6. 6 x USB 3.2 Gen.2                       | (4) AX93519                    |
| 7. 2 x USB 3.2 Gen.1                       | (5) Blank I/O cover            |
| 8. 2 x LAN                                 | 12. 2 x 2.5" SSD/HDD bay       |
| 9. Ground terminal                         | 13. Expansion slots            |

## Features

- Intel® Xeon® or 10th gen Intel® Core™ i7/i5/i3 processor (Cometlake-S), up to 80W\*
- Intel® W480E chipset
- Offers up to 400W of power for the accelerator card
- Supports M.2 Key E slot for Wi-Fi connection
- Supports power-on delay function
- Supports TPM 2.0
- Supports Intel® RAID
- Supports Intel® AMT



## Specifications

Standard Color	Sliver black	
Construction	Aluminum extrusion heavy-duty cold-rolled steel	
Processor System	CPU Level	Intel® Xeon® and 10th Gen Intel® Core™ i7/i5/i3 processors (Cometlake-S), up to 80W*
	Chipset	Intel® W480E
System Memory	4 x DDR4-2933 MT/s ECC or non ECC U-DIMM socket, up to 128GB	
System I/O	Ethernet	1 x 2.5GbE LAN (Intel® I225-LM) 1 x GbE LAN (Intel® I219-LM) with Intel® AMT
	USB	6 x USB 3.2 Gen2 (10G) 2 x USB 3.2 Gen1 1 x USB 2.0 (internal, 180D Type-A for license key)
	Display	1 x VGA supporting a resolution of 1920 x 1200 1 x HDMI supporting a resolution of 4096 x 2304 @30Hz
	Audio	1 x Line-out
	Others	1 x Power on/off button with LED (ATX) 1 x Remote power switch 1 x AT/ATX selectable switch (default ATX mode) 1 x 4-pin terminal block
TPM	TPM 2.0	
Expansion Interface	Slot 1-2:	PCIe x8 (x4 signal)
	Slot 3:	PCIe x16
	Slot 4:	Blank
		1 x Full-size PCI Express Mini Card slot with SIM slot (USB & PCIe interface) 1 x M.2 Key E 2234 socket
Storage	2 x SSD/HDD drive bay (7/9.5 mm height, external)	
	1 x SSD/HDD drive bay (optional, 7/9.5/15 mm height, internal)	
	1 x M.2 Key M 2280 socket (PCIe Gen3 x4) for NVMe SSD	

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## Specifications

System Indicators	1 x HDD/SSD access LED 3 x User's LED
Power Input	Type: ATX/AT Input: 24 VDC (uMin=19V/uMax=30V)
Operating Temperature	-10°C to +60°C (+14°F up to +140°F) with W.T. HDD/SSD*
Storage Temperature	-20°C to +80°C (-4°F to +176°F)
Humidity	10% to 90%, non-condensing
Dimensions	190 mm (7.48") (W) x 192 mm (7.56") (H) x 360 mm (14.17") (D)
Weight (net/gross)	9.8 kg/7.3 kg
Certifications	CE (EN 61000-6-4/EN 61000-6-2)/FCC
OS Support	Windows 10, Windows 11, Windows 10 IoT, Windows 11 IoT, Linux OS

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

## Ordering Information

### System

IPC970-10W-F5E1A (P/N: E26G970102)	Industrial system with Intel® W480 PCH, blank flexible I/O cover, and 3 PCIe slots, without Axiomtek logo
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### Flexible System I/O 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 isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module (project-based support)
AX93516 (P/N: E29R127103)	4 x RS-232/422/485 with isolated 2kVDC module (project-based support)
AX93519 (P/N: E29R127104)	1 x GbE LAN (Intel® I210-AT) + 2 x RS-232/422/485 + 2 x USB 3.0 (USB 2.0 signal) module

### Optional Accessory

2.5" SATA HDD/SSD	
DDR4-2933 MT/s ECC or non ECC U-DIMM	
E29R127138	Wall mount bracket kit
E29R127137	Internal SSD/HDD bracket kit (project-based support)
E29R127136	Memory holder bracket (project-based support)

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## Power Protection

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### DC Version

OVP (over voltage protection)  
OCP (over current protection)  
Reverse protection

## Packing List

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1 x IPC970 unit  
1 x Screw pack  
4 x Foot pad  
1 x CPU grease  
1 x Terminal block  
1 x Remote power switch cable  
1 x Extension holder bracket kit  
2 x HDD spacer  
2 x graphics card power cable  
1 x NVMe SSD bracket kit

## Dimensions

