

IPC972

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



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

Features

- LGA1200 Intel® Xeon® or 10th gen Core™ i7/i5/i3 processor, up to 80W
- Intel® W480E chipset
- Supports dual NVIDIA® GeForce RTX 3090 GPU cards
- Supports M.2 Key B slot for 5G wireless connection
- Supports M.2 Key E slot for Wi-Fi connection
- Supports RAID 0, 1, 5
- Supports power-on delay function
- Supports TPM 2.0



Specifications

Standard Color	Sliver black	
Construction	Aluminum extrusion heavy-duty cold-rolled steel	
Processor System	CPU Level	Intel® Xeon® or 10th Gen Core™ i7/i5/i3 processor (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 2.5 Gigabit LAN (Intel® I225-LM) 1 x Gigabit LAN (Intel® I219-LM)
	USB	6 x USB 3.2 Gen.2 (10G) 2 x USB 3.2 Gen.1 1 x USB 2.0 (internal, 180D type A for license key)
	Display	1 x VGA 1920 x 1200 resolution 1 x HDMI 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
	Flexible System I/O Window	AX93511
	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 10/100/1000 Mbps (Intel® I211-AT) Ethernet, 2 x RS-232/422/485, and 2 x USB 3.0 (USB 2.0 signal) module
	Blank I/O cover (default)	
TPM	TPM 2.0	

Specifications

Expansion Interface	Slot 1: PCIe x4 Gen3 Slot 2: PCIe x16 Gen3 (x8 signal) Slot 3: PCIe x8 Gen3 (x4 signal) Slot 4: PCIe x16 Gen3 (x8 signal) Slot 5-6: Blank 1 x Full-size PCI Express Mini Card slot with SIM slot (USB & PCIe interface) 1 x M.2 Key E 2234 socket 1 x M.2 Key B 3042/3050 socket with SIM slot
Storage	2 x SSD/HDD drive bay (7/9.5mm height, external) 1 x SSD/HDD drive bay (optional, 7/9.5/15mm height, internal) (supporting RAID 0,1) 1 x M.2 Key M 2280 socket (PCIe Gen3 x4) for NVMe SSD
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	255 mm (10") (W) x 192 mm (7.55") (H) x 360 mm (14.17") (D)
Weight (net/gross)	8kg/11.2kg
Certifications	CE, FCC

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

Ordering Information

System

IPC972-10W-F5E1 (P/N: E26G972100)	Industrial system with Intel® W480 PCH, 4 PCIe slots, and blank flexible I/O cover, w/o Axiomtek logo
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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 10/100/1000 Mbps (Intel® i211-AT) Ethernet, 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	
8816G9704A0E	Wall mount bracket kit
8816G9703A0E	Internal SSD/HDD bracket kit
886G9701CA0E	Memory holder bracket

Power Protection

DC Version

OVP (over voltage protection)

OCP (over current protection)

Reverse Protection

Packing List

- 1 x IPC972 unit
- 1 x Screw pack
- 4 x Foot pad
- 1 x CPU grease
- 1 x 4-pin Terminal block
- 1 x 6-pin Terminal block
- 1 x Remote power switch cable
- 1 x Extension holder bracket kit
- 2 x HDD spacer
- 4 x Graphics card power cable
- 1 x NVMe SSD bracket kit

Dimensions

