

Compact Power for Harsh Environments and Smart Automation



Axiomtek IPC920



Rugged Industrial System with Rich I/O and One PCIe16 Expansion

Industrial and energy operators face increasing demands for high-performance computing, flexible connectivity, and reliable edge control in harsh environments. The Axiomtek IPC920 addresses these challenges with scalable CPU options supporting up to 14th Gen Intel® Core™ processors, enabling powerful data processing for AIoT and automation tasks. Its fanless, compact design ensures dependable operation under extreme temperatures and vibration. A rich combination of front-accessible I/O, PCIe/mini-PCIe/M.2 expansion, and dual 2.5GbE LAN ports provides exceptional flexibility for system customization and add-on integration. With TPM 2.0 and optional secure boot support, the IPC920 delivers enhanced system integrity. Compared with traditional box PCs, it offers superior scalability, expandability, and energy efficiency—making it an ideal platform for factory automation, machine vision, and edge intelligence deployment.

**Scalable CPUs
+ Rich I/O + PCIe
Expansion for
Flexible System
Customization**

Intel Products and Technologies

Accelerating AI and Analytics at the Edge



Intel® Core™
Processors



Intel®
Ethernet



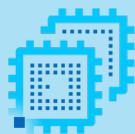
Intel® oneAPI
Toolkit



OpenVINO™
Toolkit

Key Features

Empowered by Intel.



Scalable
Computing
Power



Fanless
Design



High-Speed,
Industrial-Grade
Connectivity



PCIe/M.2
Expansion

Axiomtek IPC920



Product Specifications

CPU	14th/13th/12th Gen Intel® Core™ processor, up to 65W
Graphics	Intel® UHD Graphics 770
Memory	2 x 262-pin DDR5 4800 ECC/non-ECC SO-DIMM, up to 96GB
Storage	2 x 2.5" HDD/SSD bay (7/9.5 mm height) supporting RAID 0,1 (R680E) 1 x M.2 Key M 2280 socket (PCIe x4)
Wireless Network	Expandable with WiFi/LTE supported by full-size PCIe Mini Card or M.2 key E2230 socket
LAN	2 x RJ-45 2.5GbE LAN (Intel® Ethernet Controller I226-V) 1 x RJ-45 GbE LAN (Intel® Ethernet Connection I219-LM); with Intel® AMT (Intel® R680E Chipset)
Operating/Storage Temp.	20°C to +60°C / -20°C to +80°C
Dimension (W x D x H)	IPC920-H-F1, IPC920-R-F1: 83.5mm x 192mm x 230mm IPC920-R-F1E: 118.5mm x 192mm x 230mm
Weight	IPC920-H-F1, IPC920-R-F1: 3.2 kg / 4.9 kg IPC920-R-F1E: 3.7 kg / 5.4 kg
OS	Windows 10 IoT, Windows 11 IoT, and Linux OS

Learn More

[Axiomtek IPC920](#)

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