

Extreme Performance. Rugged. Ready.



7Starlake AV600-MH-A50

Battlefield-Ready Computing for Tactical Edge AI

The AV600-MH-A50 is designed to meet the growing demand for high-performance, reliable computing in rugged and IoT-intensive environments. Many organizations struggle to deploy advanced AI and data-driven applications in harsh operating conditions, where conventional systems fail due to extreme temperatures, vibration, or electrical interference.

Powered by the Intel® Core™ Ultra 7 processor 165H with integrated Intel® Arc™ graphics, this platform delivers up to 16 CPU cores, clock speeds of up to 5 GHz, and up to a 32% improvement in single-thread performance¹. The integration of Intel® Arc™ graphics provides up to 50% AI performance improvement compared to previous generations¹, ensuring smooth execution of demanding AI and data-intensive workloads.

Engineered for harsh environments, the system features MIL-DTL-38999 connectors, IP65-rated protection, an extended operating temperature range of -20 °C to 60 °C, and compliance with MIL-STD-810 and MIL-STD-461 standards, ensuring dependable operation in mission-critical scenarios. High-bandwidth I/O and flexible expansion options further enhance system adaptability.

Compared with conventional industrial PCs, the AV600-MH-A50 uniquely combines extreme computing power with rugged durability, making it an ideal platform for mission-critical IoT, defense, and industrial applications.

¹ Intel does not control or audit third-party data. You should consult other sources to evaluate accuracy.



***Rugged Edge AI,
Unmatched
Performance***

Intel Products and Technologies

Accelerating AI and Analytics at the Edge



Intel® Core™
Ultra Processor



Intel® Arc™
Graphics



Intel® oneAPI
Toolkit



OpenVINO™
Toolkit

Key Features

Empowered by Intel.



Rugged & Military-Grade Design



Flexible Expansion & Connectivity



High-Performance Computing



Reliable Power & Operation

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Product Specifications

CPU	Intel® Core™ Ultra 7 processor 165H
Graphics	Integrated Intel® Arc™ graphics Graphic Card: MXM 5000Ada
Memory	Up to 96GB DDR5 5200MHz SO-DIMM, non-ECC
Storage	1 x 2.5" 4TB SSD, Swappable SSD/HDD slot; 1 x M.2 2280 M key 512GB SSD; 1 x M.2 2280 M key 4TB SSD
Wireless Network	Optional
LAN	2 x 10/100/1000/2.5G Ethernet Ports (One from CPU module)
Operating / Storage Temp.	-20°C to +60°C / -40°C to +85°C
Dimension (W x D x H)	350mm x 250mm x 120mm
Weight	9.8kg
OS	Windows 10/11 64-bit / Linux (support by request)

Learn More

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