

ABOX-5221: High-Bandwidth Rugged Edge AI with 1-GbE & Discrete GPU Support



Edge AI with GPU Acceleration for Harsh Environments

Businesses in transportation, surveillance, and industrial automation face mounting challenges: managing massive data from sensors and cameras, enabling real-time AI analytics at the edge, and ensuring reliability in harsh environments. The [SINTRONES Edge AI Rugged Computer ABOX-5221](#) is engineered to meet these demands. Featuring support for high-performance GPUs, 10GbE connectivity, and multiple expansion options, it empowers organizations to process video and AI workloads locally with minimal latency. Its rugged, fanless design withstands extreme temperatures and vibrations, ensuring consistent operation in mission-critical deployments. By consolidating AI inference, data transmission, and system management into one reliable platform, the ABOX-5221 reduces infrastructure costs while boosting efficiency. Unlike conventional IPCs, it delivers unmatched GPU scalability and industrial durability, making it the ideal solution for enterprises seeking powerful, future-ready edge AI computing.

Key Features



AI Power at
the Edge



Bandwidth
Without Limits



Built for
Extremes



Scalable by
Design

Intel Products & Technology



[Intel® Core™ Ultra Processors](#)



[Intel® Arc™ Graphics](#)

[Intel® UHD Graphics](#)

Intel technologies may require enabled hardware, software or service activation. // No product or component can be absolutely secure. // Your costs and results may vary. // Performance varies by use, configuration and other factors. // See our complete legal [Notices and Disclaimers](#). // Intel is committed to respecting human rights and avoiding causing or contributing to adverse impacts on human rights. See Intel's [Global Human Rights Principles](#). Intel's products and software are intended only to be used in applications that do not cause or contribute to adverse impacts on human rights.

© Intel Corporation. Intel, the Intel logo and other Intel marks are trademarks of Intel Corporation or its subsidiaries. Other names and brands may be claimed as the property of others.