

Fanless Low-Profile Industrial Automation Computer



Helix 521

Compact AI-Ready Industrial PC Powered by Intel® Core™ Ultra Processors

Intel® Core™ Ultra Performance

The [Helix 521](#) is powered by Intel® Core™ Ultra processors for scalable edge AI. It supports up to 96 GB DDR5 memory and storage via an M.2 2280 M-Key slot (PCIe 4, SATA III). The system is Intel vPro®-capable (depending on CPU), enabling remote KVM access and firmware updates.

Engineered for Industrial Environments

The Helix 521 uses a fanless, low-profile design optimized for DIN, Wall, Vesa, and rack mounting, making it suitable for space-constrained industrial settings. It is UL, RoHS, FCC, and CE certified, EMC tested for industrial, medical, in-vehicle, rail, and maritime applications, and operates from 0° to 50°C.

Versatile Connectivity for Industrial Needs

The Helix 521 supports a range of interfaces for various industrial applications. Front panel includes 4x 2.5GbE LAN, 6x USB 3.2 ports and 2x USB-C/Thunderbolt™ 4 ports. Side panel adds optional 4x COM (RS232/422/485), optional CAN, optional DIO, and 2x Display Ports.



Key Features



Enhanced AI Capability



Low-Profile & I/O Dense



High-Speed Connectivity



Industrial-Grade Build

intel ai

Intel® AI Edge Systems

Intel Products & Technologies



[Intel® Core™ Ultra Processors](#)



[Intel vPro®](#)



[Intel® Arc™ Graphics](#)



[OpenVINO™ Toolkit](#)

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