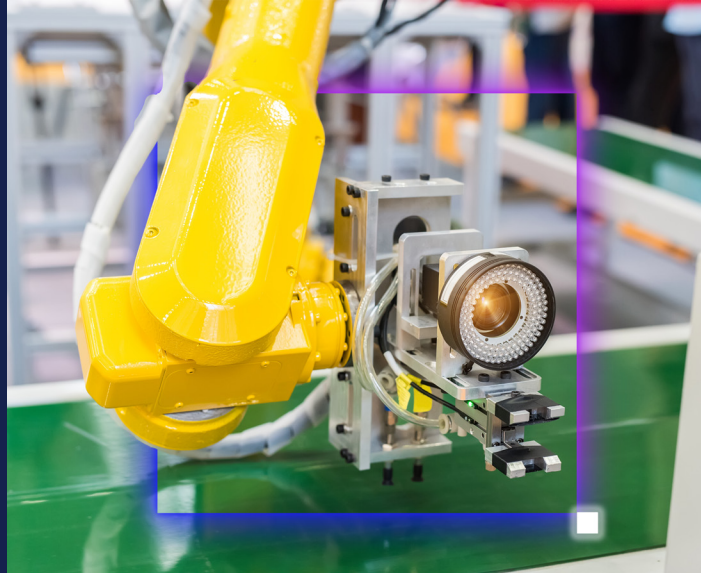


Machine Vision Controller with Intel® Core™ Processors (Series 2)



ARES-1983H

Compact Size, Expandable Modular Design, with Fansink Design

The ARBOR ARES-1983H is a high-performance industrial edge AI system designed to enable real-time analytics, machine vision, and intelligent automation in demanding environments. Powered by Intel® Core™ processors (Series 2) with integrated graphics, it delivers the compute performance required for data-intensive workloads at the edge.

Built for flexibility and reliability, the system features rich I/O including up to 7 LAN ports with 4 PoE connections, isolated digital I/O supporting wet and dry contact devices, and internal USB ports for secure hardware license dongles. These capabilities simplify integration with cameras, sensors, and industrial control systems.

Optimized for AI workloads with support for the OpenVINO™ toolkit, the ARES-1983H enables low-latency processing, predictive analytics, and real-time monitoring—helping organizations improve efficiency, uptime, and operational intelligence.

ARBOR × intel.

**Deliver reliable
edge AI
performance
with rich I/O, PoE
connectivity, and
rugged industrial
design**

Intel Products and Technologies

Accelerating AI and Analytics at the Edge



Intel® Core™
Processors



OpenVINO™
Toolkit



Intel®
Ethernet

Key Features

Empowered by Intel.



Customizable
Expansion Box



Isolated I/O with
PoE Ports



Single-Sided
DIN Rail I/O



mPCIe with
Nano SIM Slot

Arbor Technology ARES-1983H



intel ai

Intel® AI Edge Systems

Product Specifications

CPU	Intel® Core™ processors (Series 2)
Graphics	Integrated Intel® UHD Graphics 730/770
Memory	Support DDR5 5600MHz SO-DIMM x1 (up to 32GB)
Storage	Support M.2 M-Key (2242/2280), 2.5" HDD
Wireless Network	Support M.2 E-Key (2230), mPCIe
LAN	Intel® Ethernet Controller I226/I210
Operating / Storage Temp.	-20 ~ 60C / -30 ~ 70C
Dimension (W x D x H)	55mm x 164mm x 210mm / 90mm x 164mm x 210mm (for standard expansion box)
Weight	2.5kg / 3.1kg (for standard expansion box)
OS	Windows 11 / Ubuntu / Windows 10 Enterprise LTSC 2021
I/O Options (Input/Output)	6x USB TypeA ports (2x USB3.2Gen2, 2x USB3.2Gen1, 2x USB2.0); Dual-Display (VGAx1 and DisplayPortx1); 2x COM ports (RS232x1 and RS232/422/485x1); remote power switch

Learn More

[Arbor Technology ARES-1983H](#)

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