

Intel® Core™ Ultra Processors (Series 1) Performance for Real-Time Edge Intelligence

AAEON UP Xtreme i14 Edge

Accelerating Vision Robotics, and Automation at the Edge

The UP Xtreme i14 Edge, powered by Intel® Core™ Ultra Processors (Series 1) with integrated Intel® Arc™ GPU, delivers high-performance, energy-efficient computing in a compact edge-ready design. With AI acceleration, advanced graphics, and real-time responsiveness, it enables machine vision, robotics, and automation across smart factories, healthcare, retail, and AIoT applications. Rich I/O, flexible expansion, and industrial-grade reliability make it easy to integrate into demanding environments. As an AI Edge System qualified by Intel® ESQ, it provides a trusted, future-ready platform for innovation at the intelligent edge.

For industrial control solutions that go beyond the capabilities of traditional PLCs, the UP Xtreme i14 Edge combines the versatility of its industrial communication support with Ethernet supporting Time-Sensitive Networking (TSN). Sensor and actuator data can be transmitted faster to provide AI-driven insights, while instructions can be executed with minimal latency based on the platform's GPIO, making the UP Xtreme i14 Edge an incredibly effective tool for the remote monitoring and control of industrial setups.



**Compact AI IPC
with Intel® Core™
Ultra processor,
Intel® Arc™
graphics, and
real-time
video
intelligence**

Intel Products and Technologies

Accelerating AI and Analytics at the Edge



Intel® Core™
Ultra Processors



Intel® Arc™
GPU



OpenVINO™
Toolkit

Key Features

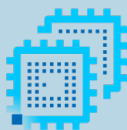
Empowered by Intel.



Compact Industrial Design



Energy-Efficient Platform



Rich I/O and Versatile Integration



Machine Vision

AAEON UP Xtreme i14 Edge



Product Specifications

CPU	Intel® Core™ Ultra 5 processor 125U (12M Cache, up to 4.30 GHz) Intel® Core™ Ultra 5 processor 125H (18M Cache, up to 4.50 GHz) Intel® Core™ Ultra 7 processor 155H (24M Cache, up to 4.80 GHz) Intel® Core™ Ultra 7 processor 165H (24M Cache, up to 5.00 GHz)
Graphics	Intel® Arc™ Graphics
Memory	Up to 64GB onboard LPDDR5 (Dual-Channel)
Storage	M.2 2280 M-Key x 2 / SATA 6Gb/s x 1
Wireless Network	M.2 2230 E-key x 1
LAN	2.5GbE x 1 (via Intel® Ethernet Controller I226-IT) GbE x 1 (Intel® Ethernet Connection I219)
Operating / Storage Temp.	32°F ~ 140°F / -40°F ~ 176°F
Dimension (W x D x H)	152mm x 71.5mm x 123.8mm
Weight	1.34kg
OS	Windows 10/11 (64bit) / Linux Ubuntu 22.04/Kernel 6.5 up

Learn More

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