

# Intel® Core™ Ultra Series 3 Processors for Edge AI



## AAEON UP Xtreme PTL Edge Compact Edge System Delivering 180-TOPS AI and Quad 8K Display Support



The [UP Xtreme PTL Edge](#) directly addresses the industry challenge of deploying high-performance AI inference and complex workload integration at the edge. Current solutions often lack the necessary compute density or efficient power profile for advanced tasks like large language models (LLM) and real-time robotics.

The UP Xtreme PTL Edge, powered by the latest Intel® Core™ Ultra Series 3 processor, solves this by offering a breakthrough 180 TOPS of AI performance. CPU+GPU+NPU combines high-speed processing with deep learning acceleration, eliminating the need for separate controllers and simplifying system complexity.

Key benefits of deployment include rapid processing for real-time decision-making, reduced latency, and enhanced user interfaces via 8K Quad Display support. Differentiated by its top-tier 180 TOPS AI capability in a compact 8.6" x 5.1" x 2.0" industrial form factor, the UP Xtreme PTL Edge sets a new standard for industrial developers requiring maximum performance and I/O integration.

***Powered by  
Intel® Core™  
Ultra Series 3,  
UP Xtreme PTL  
Edge delivers  
180-TOPS AI  
with Slim Design  
and Broad I/O***

## Intel Products and Technologies

Accelerating AI and Analytics at the Edge



[Intel® Core™  
Ultra Processors](#)



[Intel® Arc™  
Graphics](#)



[Intel® Ethernet](#)

## Key Features

Empowered by Intel.



High-Power  
Edge AI



Rugged  
Compact  
Design



Quad 8K  
Displays



High-Speed  
I/O

## AAEON UP Xtreme PTL Edge



intel ai

Intel® AI Edge Systems

## Product Specifications

CPU	Intel® Core™ Ultra Series 3 processor
Graphics	Intel® Arc™ B390 GPU
Memory	DDR5 7200 Dual Channel SODIMM x 2 Max. 128GB
Storage	M.2 2280 M-Key x 2
Wireless Network	M.2 2230 E-key x 1 for Wi-Fi/BT
LAN	2.5GbE x 2 (via Intel® Ethernet Controller I226-IT)
Operating / Storage Temp.	0°C - 60°C (0.7m/s airflow) / -40°C - 80°C
Dimension (W x D x H)	218mm x 129mm x 49.5mm
Weight	1.19kg
OS	Windows 11 IoT Enterprise / Ubuntu 24.04 LTS

## Learn More

[AAEON UP Xtreme PTL Edge](#)

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