

Open Robotics Development System



AAEON CEXD-INTRBL



AI-Optimized Robotics Development System with Intel® Core™ Ultra Series 3 Processors

Robotics developers face increasing demands for real-time AI processing, multi-sensor integration, and precise motion control—often requiring complex system architectures. The CEXD-INTRBL addresses these challenges with an all-in-one robotics development platform powered by Intel® Core™ Ultra Series 3 processor, integrating CPU, GPU, and NPU acceleration in a compact edge system.

Delivering up to 180 TOPS of AI performance, the CEXD-INTRBL enables real-time perception, decision-making, and control without external GPUs. Support for up to eight GMSL cameras, multiple USB-C sensor interfaces, CANBus, and IEEE 1588 PTP networking allows seamless integration of vision, sensor, and motion systems. Designed for advanced robotics applications such as humanoid robots, AMRs, and autonomous systems, the platform reduces development complexity, accelerates time-to-market, and provides a scalable foundation for intelligent robotics solutions.

***Dedicated I/Os
and DC input
designed
specifically for
robotic systems***

Intel Products and Technologies

Accelerating AI and Analytics at the Edge



[Intel® Core™
Ultra Processors](#)



[Intel® Arc™
Graphics](#)



[Intel® Ethernet](#)



[OpenVINO™
Toolkit](#)

Key Features

Empowered by Intel.



AI Accel to 180 TOPS



Synced Real-Time Control



Vision & Sensor Integration



Ideal for Robotics Use

AAEON CEXD-INTRBL



intel ai

Intel® AI Edge Systems

Product Specifications

CPU	Intel® Core™ Ultra X7 358H (16C, up to 4.8 GHz)
Graphics	Intel® Arc™ B390
Memory	Onboard LPDDR5 8533MT/s up to 64GB
Storage	Support up to 2TB M.2 2280 B-Key x1 (PCIe Gen5 x4) M.2 2280 M-Key x1 (PCIe Gen5 x4)
Wireless Network	M.2 2230 E-Key x1 (WiFi / BT) SIM Card Socket x1
LAN	Intel® Ethernet Controller I226-V, 2.5GbE x 4
Operating / Storage Temp.	0°C – 50°C / -40°C – 85°C
Dimension (W x D x H)	137mm x 135mm x 65mm
Weight	1060g
OS	Windows® 11 (64-bit), Ubuntu 25.04 or 24.04 and later
I/O Options (Input/Output)	USB 3.2 Gen2 (Type-C) x4 / USB 3.2 Gen2 (Type-A) x2; HDMI 1.4 X 1; DP 1.2 x 1; RS-232/422/485 x 2; CANBus x 1; GMSL x2 (FAKRA, up to 8 channels); Audio Jack (Line-Out/Mic)

Learn More

[AAEON CEXD-INTRBL](#)

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.