



EdgeAI

Computing Solutions

Accelerating AI Transformation in Embedded Markets

ADVANTECH

Enabling an Intelligent Planet

EdgeAI

Computing Solutions

Accelerating AI Transformation in Embedded Markets

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AI Is Driving Cross-Dimensional Edge Success

Minimize Resources

AI handles redundant or repetitive tasks, allowing human resources to focus on more strategic roles

Enhance Data Processing

Accurate analysis and predictions enhance decision-making, reveal opportunities, and drive innovation

Maximize Efficiency

Reduce manual intervention for quicker responses and better service personalization



Swift Disease Diagnosis



Lights-Out Manufacturing



From Hands to AI Minds

**Cross-Dimensional
Competitive Advantage**

*Application
Value*

*AI Computing
Power*



Traffic-Free Tomorrow

Bridging AI Technologies and Applications



Standardized Platform



Enabling quick adoption and minimizing upgrade effort with 20+ form factors for various AI performance needs.

Multifaceted Technology



Always offering suitable products for any application by integrating diverse AI technologies, AI power, size or specifications required.

Open Ecosystem



Unlocking Edge possibilities to accelerate AI growth and creating greater value through an open EdgeAI ecosystem that connects leading partners.



With Advantech, we enhance performance and accessibility for AI inference deployment anywhere.

– **René Torres,**
Vice President, Sales, Marketing and Communications Group
General Manager, Network & Edge Solution Sales



NVIDIA will continue to deepen our collaboration with Advantech and provide AI applications from edge to cloud, realizing AI in various applications.

– **Eunice Chiu,**
NVIDIA VP and GM Taiwan



By collaborating with Advantech, we drive innovation in shaping a new IoT world, ensuring seamless AI connectivity, efficiency, and privacy.

– **Dev Singh,**
VP & GM of Industrial, Qualcomm



Axelera AI and Advantech are working together to make AI more accessible and impactful across our society.

– **Fabrizio Del Maffeo,**
CEO and Co-Founder, Axelera AI

Co-Create a Thriving EdgeAI Ecosystem

Diverse AI technologies and inconsistent interfaces complicate customer decisions and slow AI deployment progress. Advantech addresses this by uniting top-tier partners and leveraging our design capabilities to foster a thriving and open AI ecosystem.



Advantech and AMD work together to empower Edge applications with AI-enhanced experiences.

– **Gaur, Rajneesh,**
Embedded BU head and CVP, AMD



With Advantech's expertise in edge computing and Hailo's cutting-edge technology, we are providing our customers with best-in-class AI solutions for edge applications.

– **Orr Danon,**
Hailo CEO



By partnering with Advantech, we jointly drive innovation and security services to empower a wide range of edge applications, transforming our vision into reality.




– **Robert Thompson,**
Director of Edge Processing Ecosystems, NXP

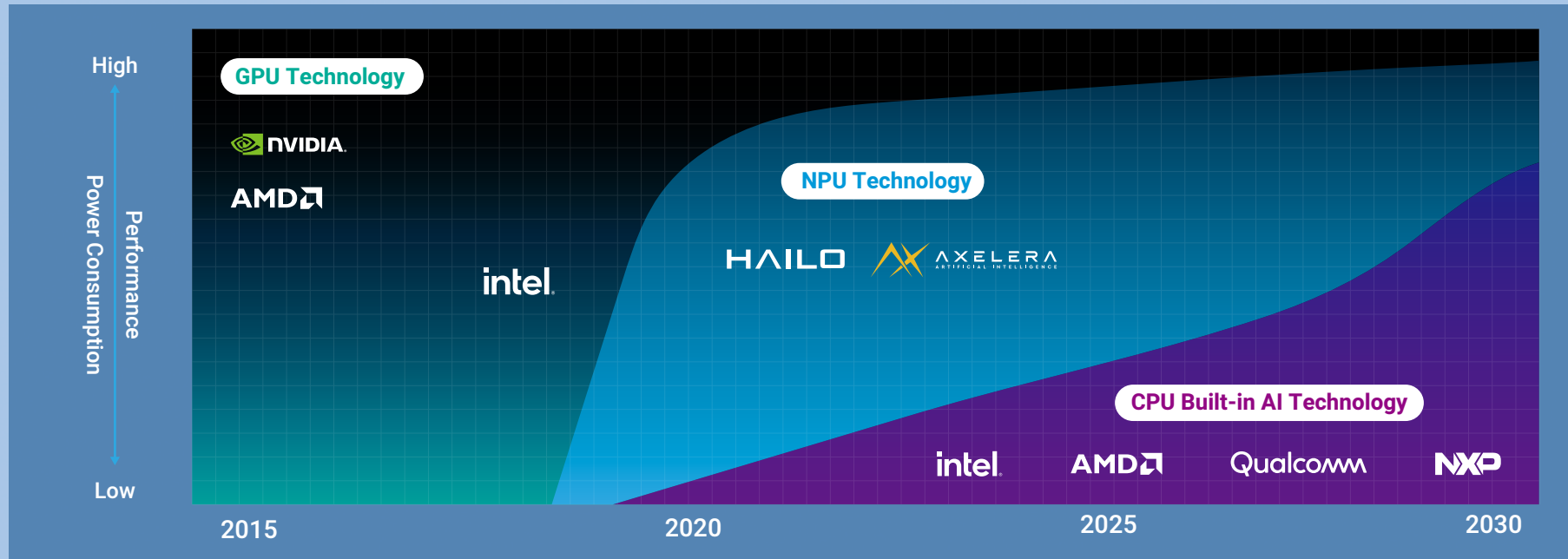


We're partnering with Advantech to implement and popularize generative AI applications on-premises through EdgeAI devices and technology.

– **Pua Khein Seng,**
CEO of Phison Electronics Corp

AI Technology, Now & for the Future

	GPU 	NPU 	CPU 
Advantages	<ul style="list-style-type: none"> • Mature technology • Extreme performance for AI 	<ul style="list-style-type: none"> • Best AI performance per watt ratio • High flexibility for AI expansion 	<ul style="list-style-type: none"> • High integration reduces compatibility issues • Size-friendly, cost advantages
Usage	<ul style="list-style-type: none"> • Ideal for training and inference, with many execution units • Enables large-scale data processing 	<ul style="list-style-type: none"> • Optimized for inference • Widely adopted for extending AI features in existing systems due to its flexibility 	<ul style="list-style-type: none"> • Handles AI & applications together and can handle high complexity • High compatibility makes development easier



EdgeAI Computing Solutions



Edge AI applications span a wide range of industries, including manufacturing, smart cities, retail, and healthcare. Advantech offers standard platforms from low-power to high-performance EdgeAI computers and AI software development environments, efficiently handling diverse AI workloads and accelerating Edge AI deployment.

<p>High-Performance Inference & AI Model Optimization</p> <p>> 500 TOPS</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>EdgeAI Server Boards</p> </div> <div style="text-align: center;">  <p>EdgeAI Server Systems</p> </div> </div>	<p>AI Model Training & Inferencing</p> <ul style="list-style-type: none"> Data Labeling Model Training Model Fine-Tuning Model Compression Inference Development 	<p>NVIDIA AI Enterprise</p> <p>Enterprise-Grade AI Software Platform</p> <ul style="list-style-type: none"> NVIDIA RAPIDS™ NVIDIA NeMo NVIDIA TensorRT™ 	<p>intel GETi™</p> <p>Computer Vision AI Platform</p>
<p>AI-Enabled Application Solutions</p> <p>5~100+ TOPS</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>AI on Modules & Boards</p> </div> <div style="text-align: center;">  <p>AI-Ready Edge Systems</p> </div> </div>	<p>AI Runtime Environment</p> <ul style="list-style-type: none"> Performance Evaluation AI SDK Integration 	<p>EdgeAI SDK AI Inference Framework & Tool Kits</p> <p>TensorRT eIQ Neural Processing SDK OpenVINO ROCm HailoRT NeuroPilot</p>	
<p>AI Plug-in Modules</p> <p>25~200 TOPS</p>	<div style="text-align: center;">  <p>AI Acceleration Modules</p> </div>	<p>OS & Cloud Services</p>	<p>MicroCloud ubuntu</p>	<p>Azure OpenAI Windows</p>

■ Partnership ■ Own Build



AI-Ready Edge Systems

Advantech's AI-Ready Edge Systems offer a variety of solutions to meet customers' Edge AI Inference application needs in terms of CPU performance, AI computing power, thermal management, and application-specific I/O requirements. These solutions help customers quickly integrate their applications with AI computing capabilities.

EdgeAI Server



AIR-500/700 series

- Server-grade computing
- Multiple GPU AI cards
- Fan-based

AI Enabled Application System



AIR-300 series

- High-performance computing
- GPU / NPU AI card
- Fan-based

AIR-100 series

- Power-efficient computing
- Integrated NPU / NPU AI card
- Fanless

AI Gateway



AIR-000 Series

- Light computing
- Integrated NPU
- Fanless



Star Products



Compact Fanless EdgeAI System AIR-150

Phase In 2024 Q2 Longevity 2034 Q1

Mobile-Grade Platform with NPU Acceleration

- 13th Gen Intel® Core™ 15W CPU
- 26 TOPs powered by Hailo-8 AI module

Comprehensive I/Os with NPU Toolkits

- LAN, USB, COM, DIO, CAN bus ports for Industrial Edge applications
- Easily deploy pre-trained AI applications with HAILO TAPPAS



1.5U Slim EdgeAI System AIR-310

Phase In 2024 Q3 Longevity 2034 Q1

Desktop-Grade Platform with Slim GPU Acceleration

- Intel® Core™ 14th Gen 65W CPU
- 8.64 TFLOPs powered by the RTX A2000 MXM AI card

Comprehensive I/Os with Inference Toolkits

- LAN, USB, COM, DIO, CAN bus ports for Industrial Edge applications
- Rapid evaluation and deployment of inference models with Edge AI SDK



4U EdgeAI Server AIR-520

Phase In 2024 Q3 Longevity 2028 Q2

Server-Grade Platform with Multi-GPU Acceleration

- AMD EPYC™ 7003 series 225W CPU
- 182 TFLOPs powered by 2 x RTX 6000 Ada PCIe AI cards

Connectivity and AI Model Training

- Built-in 10GbE LAN and BMC for remote access and management
- LLM fine-tune training with aiDAPTIV+ solution

AI on Modules & Boards

Advantech's AI on Modules & Boards offer exceptional design flexibility, reducing development time and accelerating the integration process. These comprehensive form factors serve various Edge inference applications with corresponding AI performance and software solutions.

AI on Module

- Low Latency & Power-Saving Computing
- Integrated NPU
- Flexible & Easy Migration



AI Application Board

- AI-Accelerated Computing
- Extendable GPU / NPU Card
- Application-Aligned I/O



EdgeAI Server Board

- 20+ Core Server-Grade Computing
- Multiple GPU Cards
- High-Bandwidth Connectivity



COM+HPC

AOM

3.5" SBC

PICO-ITX

Mini-ITX

Micro-ATX

ARM X86

Star Products



Learn More

Unleashing On-Device AI ROM-2860

Phase In 2024 Q3 Longevity 2034 Q3

Tiny Yet High-Performance Processing

- Qualcomm® QCS6490, 8 cores & LPDDR5 memory
- Integrated NPU, performance up to 12 TOPs

Refined Yet Complete I/O

- Supports VPU, 1 x MIPI-DSI x4, 1 x DP & 1 x eDP1.4 flexible display, to fulfill image processing
- I/O options 2 x GbE, 1 x USB 3.2 Gen2, 2 x PCIe for essential connectivity



Learn More

Balanced AI Performance and Efficiency MIO-5377R

Phase In 2023 Q3 Longevity 2033 Q1

Brilliant Computing Power

- 13th Gen Intel® Core™ Processor with up to 14 Cores & DDR5 memory
- dGPU Nvidia A4500 with MIOe-UMXM, FP32 performance of 17.66 TFLOPs

Flexible & Abundant Expansion

- 8 x USB, 4 x UARTs 3 x I2C, 2 x CAN bus for cameras & sensors under AI detection scenarios
- USB4 with PCIe, M.2 B-/E-/M-Key available to extend AI acceleration



Learn More

Driving AI Workload Breakthroughs AIMB-592

Phase In 2023 Q1 Longevity 2028 Q2

Ultimate Computing Power

- AMD Milan EPYC™ 7003, 64 cores & DDR4 memory
- Accommodates double-deck NVIDIA RTX A6000 PCIe AI cards, RT core performance up to 151.2 TFLOPs

High-Throughput Connectivity

- Four PCIe Gen 4.0 x16 slots to maximize AI computing
- Dual 10GbE LAN high-bandwidth connectivity empowers big data cloud services

AI Acceleration Modules

Advantech offers the EAI series, which features plug-in AI modules and GPU cards designed to expedite real-time inference on edge platforms. This series enables customers to swiftly integrate AI computing using standard form factors, offering highly flexible solutions that cater to diverse AI performance and power requirements.

M.2 Modules

EAI-1000 series

- Power-Efficient AI
- Compact M.2 2242/2280
- AMR/AGV, license plate recognition

Space utility ★★★★★
Power saving ★★★★★☆
Performance ★★★★★☆



MXM Cards

EAI-2000 series

- Integrated AI
- Slim MXM Type A / B
- Medical analysis, robotics arms

Space utility ★★★★★☆
Power saving ★★★★★☆
Performance ★★★★★☆



PCIe Cards

EAI-3000 series

- High-Performance AI
- Standard PCIe x16/x8
- Traffic surveillance, AOI inspection

Space utility ★★★★★☆
Power saving ★★★★★☆
Performance ★★★★★☆



intel. HAILO

Star Products



Hailo-8 M.2 AI Module
EAI-1200

Phase In 2024 Q3 Longevity 2029 Q4

Power-Efficiency AI

- 26 TOPS
- TDP up to 8.25W

High Compatibility

- x86/ARM-based platform
- -40 ~ 85°C working temp. support



Intel® Arc™ A370M MXM Type A GPU Card
EAI-2100

Phase In 2023 Q3 Longevity 2028 Q4

Integrated AI

- 4.2 TFLOPs
- TDP up to 40W

Easy Integration

- Wide range 9-20V input
- Optional heat spreader & fansink with a smart fan



Intel® Arc™ A380E PCIe x16 GPU Card
EAI-3101

Phase In 2023 Q3 Longevity 2028 Q4

High-Performance AI

- 5.02 TFLOPs
- TDP up to 85W

Rapid AI Development

- Edge AI SDK integration
- DirectX, OpenGL, OpenCL, Vulkan API support

AI Performance Benchmarks

The use cases of Edge AI are highly diversified, making it difficult for customers to identify a suitable AI solution for different purposes and uses. This AI performance benchmark consists of major evaluation factors such as throughput, latency, and power/cost efficiency, which can help users find the most suitable AI solution for their application.



Throughput



Latency



Efficiency

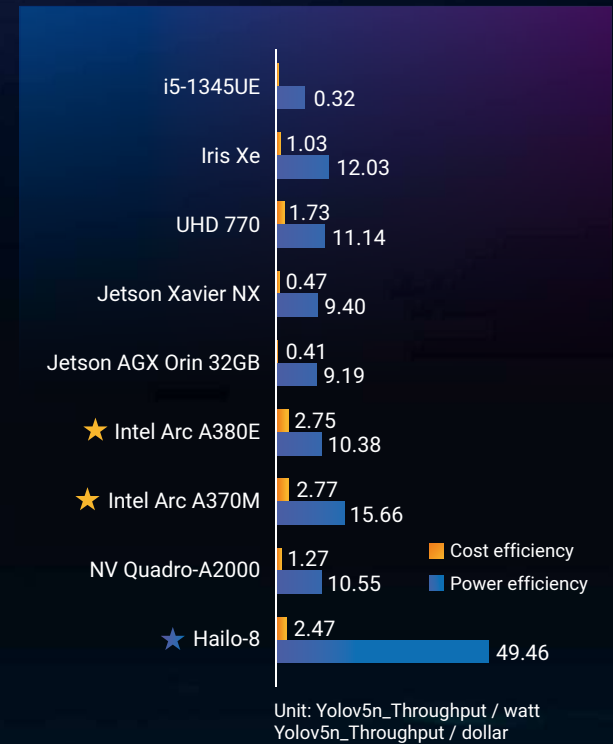
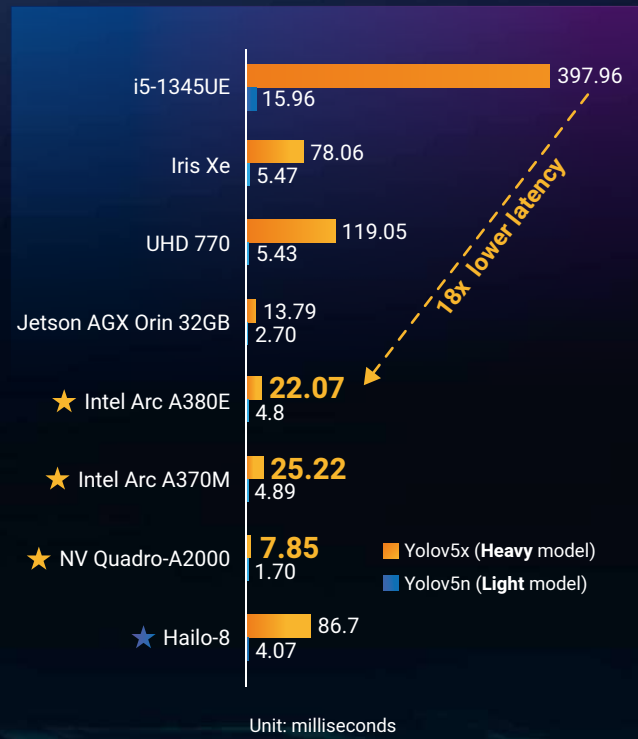
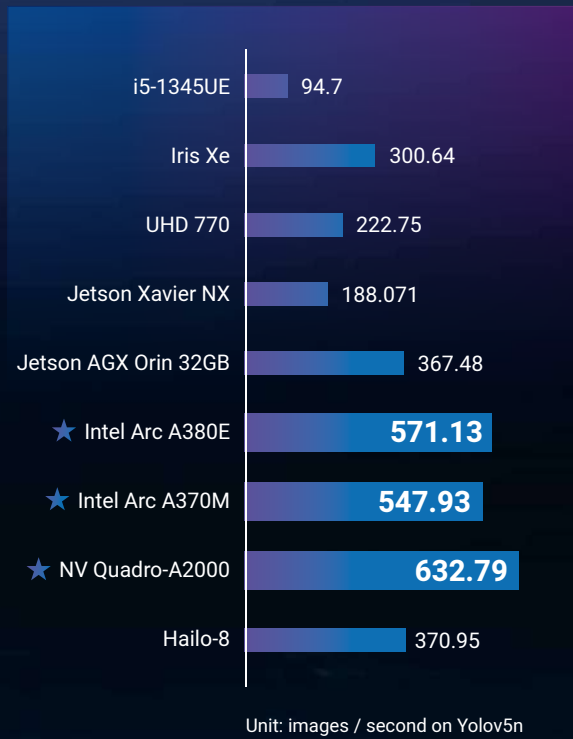
Definition	The number of images processed per second.	The time delay between a data request and its response.	How much energy and cost are being used effectively for inferencing
Measurement	Images / Second Higher is better	Milliseconds Lower is better	Throughput / Watt Throughput / Dollar Higher is better
Scenario	High-volume data inferencing	Real-time AI analysis	Prolonged edge computing
Application	Surveillance, AOI inspection	AMR, drones	Smart retail, medical analysis

Your Guide to Optimal EdgeAI Solutions

Discrete GPUs usually deliver **higher throughput**

NPUs excel in low-latency, **lightweight AI** tasks; **discrete GPUs** handle **heavy AI** workloads

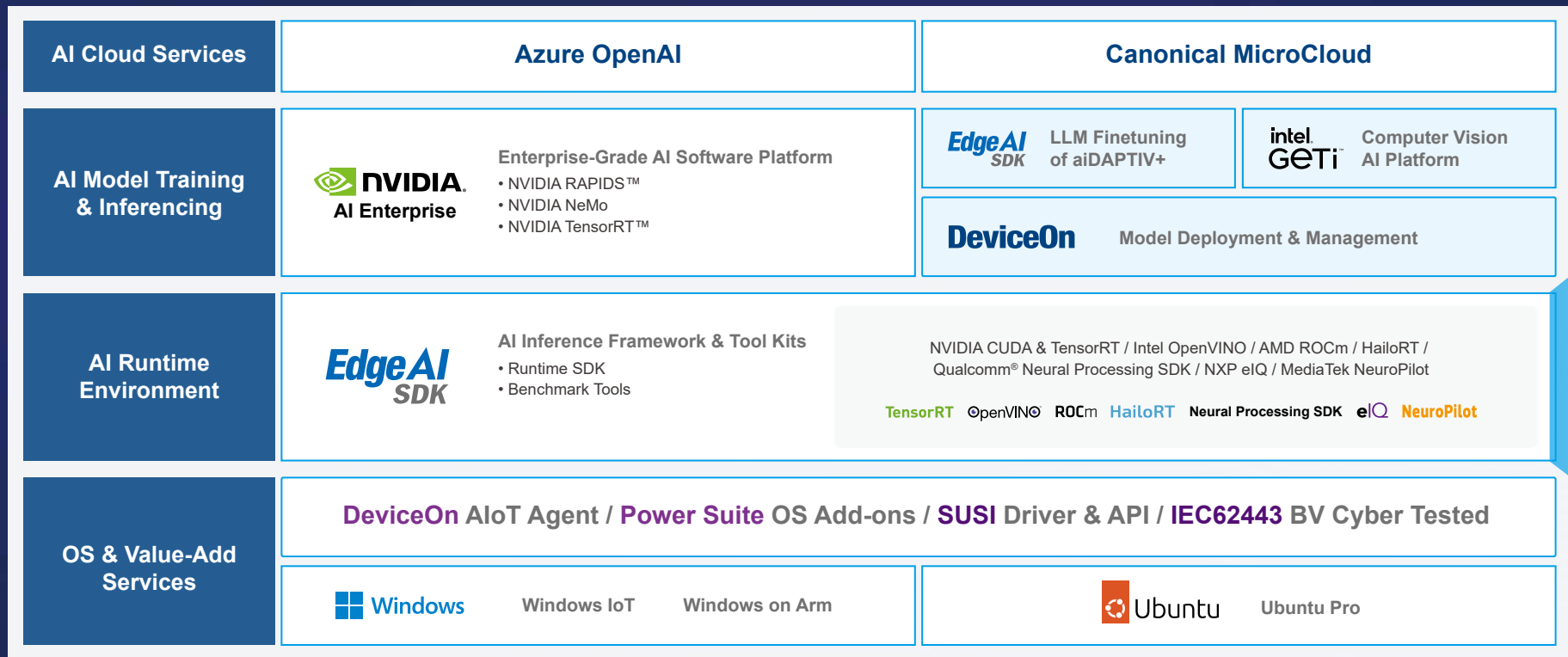
Intel Arc GPU offers **higher cost-efficiency**; the **Hailo-8 NPU** provides **power-efficiency**



Testing conditions: Running popular object detection model such as Yolov5n, Yolov5m, Yolov5x by ONNX conversion under Ubuntu 22.04 (Kernel version: 5.15, Batch size=1, Data type=INT8, Image resolution: 640x640)

EdgeAI Software Architecture

Advantech supports customers' AI projects with integrated hardware and software solutions. Our strategy includes providing AI development environments for various platforms, offering AI model training and inference tools, and enhancing scalability with cloud services. This approach ensures robust foundations, multi-platform support, relevant tools for all development stages, and continuous solution refinement through customer interaction.



Rapid AI SDK Development Toolkit

With Advantech's EdgeAI platforms and EdgeAI SDK, customers can start developing right away without the hassle of setup. The EdgeAI SDK ensures seamless compatibility, saving time and effort. The Benchmark Tool in the EdgeAI SDK integrates advanced AI inference engines, providing quick insights into AI processing capabilities with minimal R&D effort. The verified Runtime SDK and diverse AI models help jumpstart customers' AI application development promptly.

EdgeAI SDK



Inference Benchmark Tool

No-code GUI for rapid AI inference assessment



Inference Deployment Platform

Managing AI containers remotely with scalable updates

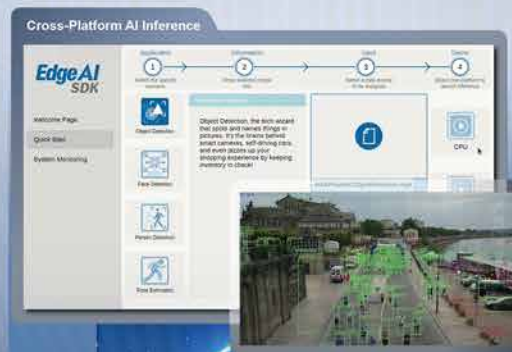
Inference Runtime SDK

Compatible installation on Advantech edge devices

TensorRT OpenVINO ROCm HailoRT eIQ
Neural Processing SDK NeuroPilot



Unlock AI potential with a unified toolset for any inference platform



Global Customer Support

Inference computing and edge-to-cloud consulting services



EdgeAI Computing Design-In Services

To create competitive advantages, AI must substantively contribute to application value. Advantech's EdgeAI Design-In Service offers optimized hardware platforms for CPU power and heat dissipation, along with compliance and security services. It provides comprehensive software support from AI model generation to deployment and integrates vision AI camera hardware and software, enabling quick AI integration for superior competitiveness.

Application Value

Certification & Security

- CE/FCC/UL/CCC/BSMI
- IEC-62443
- NVIDIA-Certified Systems™



Application Computing

Heterogeneous architecture :

- x86 platform
- Arm platform

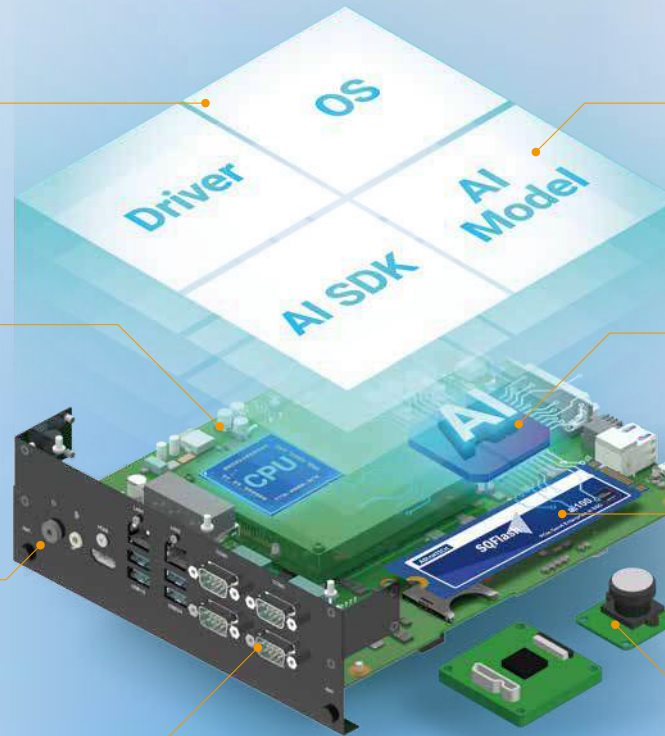


Power Stability

- PDN simulation
- Bode plot & phase margin
- Derating & inrush management

Thermal Optimization

- Thermal design & simulation
- Balance of reliability & cost



AI Integration

AI Dev. Environment

- OS: Ubuntu, Windows
- AI runtime SDK
- AI model training & inferencing



AI Computing Integration

- Extension modules: M.2, MXM, PCIe
- Integrated NPU



AI Enterprise SSD

- SQ aiSSD with aiDAPTIV+ technology
- Local, offline, affordable LLM fine-tuning



Camera Integration

- MIPI-CSI, GMSL, FPD-Link, Ethernet, USB
- Partner ISP tuning and driver integration





Over 40 Years of Experience in the Embedded Market

In-depth understanding of
embedded application requirements



Design-In Service for Platform and Application Integration

Thermal solutions, certifications,
Edge AI SDK, Ubuntu

Advancing **EdgeAI** for Competitive Leadership with Advantech



Rich and Reliable Standard Product Portfolio

AI acceleration modules, AI on modules
and boards, edge AI systems, AI server
boards and systems, software



Deep Collaboration with AI Chipset Partners

NVIDIA, Intel, AMD, Qualcomm,
NXP, MediaTek, Hailo, Axelera

Use Case

Turkey Deploys AI-Assisted Traffic Surveillance and Analysis

Introduction

Enhancing traffic efficiency to alleviate road congestion is crucial for the development of smart cities. Advantech's EAI-3100 AI module, the AIMB-289 motherboard powered by Intel® Core™ 14th Gen Desktop Processors, and ISSD's VIERO-AI Analysis system provide real-time traffic monitoring surveillance systems at 750 intersections across various cities in Turkey. This AI-accelerated analysis tracks vehicle count, density, and speed to enhance urban traffic flow and safety.

Challenges

- Traditional video processing units struggle with detailed road monitoring and analytics under bad ambient light conditions.
- Real-time traffic flow analytics require advanced image processing, recognition, and analytical capabilities.

Solutions

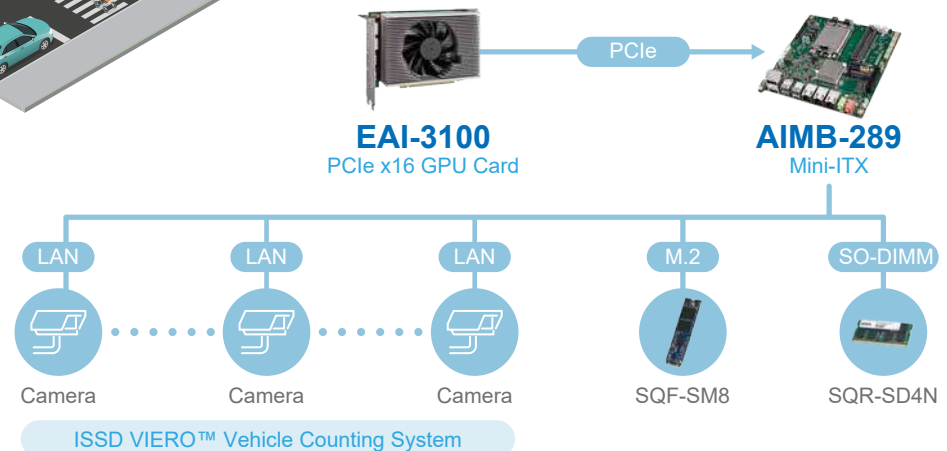
- AIMB-289, the latest high-performance THIN Mini-ITX for 1U systems with essential PCIe and multiple 2.5G LAN ports and the EAI-3100 with the Intel® Arc™ A370M GPU for complex AI inferencing
- A one-stop solution featuring SQF-SM8 SSD and SQR-SD4N DDR4



Results

50% lower latency for data transmission

33% lower construction costs



Use Case

Enhancing PCB Quality with an AI Defect Detection System

Introduction

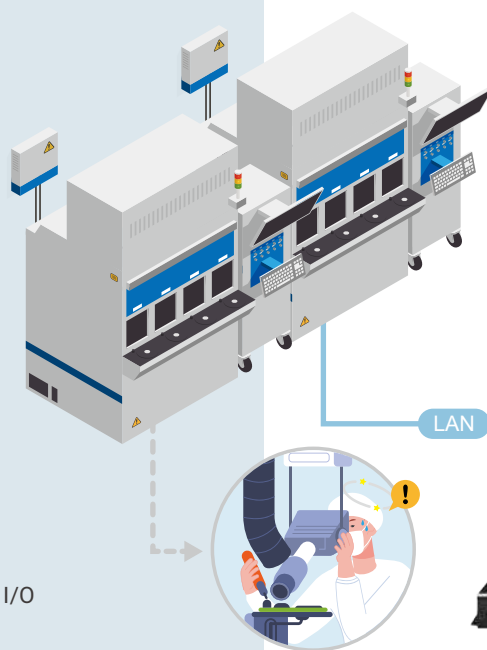
Traditional PCB manufacturers rely on rule-based machine vision algorithms for defect inspection, requiring skilled inspectors for rechecks. A leading PCB manufacturer with branches in Taiwan, China, and Japan aims to improve DIP and SMT yield rates using AI, as low contrast causes 70-80% underkill rates in automated visual inspections.

Challenges

- Long development time is required to switch from rule-based AOI to a deep learning CNN approach.
- AI model retraining at the production line is required for continuous accuracy improvement.

Solutions

- Powerful AIR-030 edge inference system with vertical I/O tailored to the application.
- AIR-520 with BMC server-grade manageability and dual GPU cards for re-training.
- Partnered with Phison's aiDAPTIV+ AOI service for customized fine-tuned models.



Results

Decreased the underkill rate by 99%

Reduced the manual reinspection workload by 92%

Enhanced the yield rate by 95%

AIR-030
EdgeAI Inference System

Phison aiDAPTIV (AOI SW)

Pin Lift	Pin Bridge	Pin Solder
Shift	Empty Solder	Dusty

AIR-520
EdgeAI Workstation

Trained Model

AI Ready Edge Systems

intel.



AIR-510

NVIDIA RTX

- Intel® Core™ 14th Gen processors
- NVIDIA Certified with 1x RTX 6000 Ada
- AI performance up to 91 TFLOPs (FP32)



AIR-310

NVIDIA RTX Intel ARC

- Intel® Core™ 14th Gen processors
- 1x Intel Arc A370M/RTX A2000
- AI performance up to 8 TFLOPs (FP32)



AIR-150

HAILO

- 13th Gen Intel® Core™ processors
- 1x Hailo-8 AI module
- AI performance up to 26 TOPs



AFE-R770

HAILO

- Intel® Core™ 14th Gen processors
- 1x Hailo-8 AI module
- AI performance up to 26 TOPs

AMD



Coming Soon

AIR-770

NVIDIA

- AMD EPYC™ 8004 series processor
- 4x Nvidia L40S GPU
- AI performance up to 366 TFLOPs (FP32)



AIR-520

NVIDIA RTX

- AMD EPYC™ 7003 series processor
- NVIDIA Certified with 2x RTX 6000 Ada
- AI performance up to 182 TFLOPs (FP32)



AIR-530

NVIDIA RTX

- NVIDIA IGX Orin processor
- NVIDIA Certified with 1x RTX 6000 Ada
- AI performance total up to 1705 TOPs



AIR-030

NVIDIA RTX

- NVIDIA Jetson AGX Orin processor
- NVIDIA Ampere architecture GPU
- AI performance up to 275 TOPs

nvidia.

AI on Modules and Boards

intel



Mini-ITX
AIMB-292

NVIDIA
RTX

- Intel® Core™ 14th Gen processors
- NVIDIA RTX A4500 MXM GPU
- AI performance up to 17 TFLOPs (FP32)



3.5" SBC
MIO-5377R

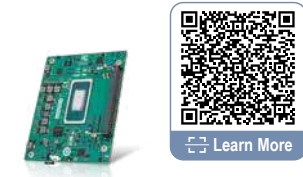
NVIDIA
RTX

- 13th Gen Intel® Core™ processors
- NVIDIA RTX A4500/A1000 MXM GPU
- AI performance up to 17 TFLOPs (FP32)



3.5" SBC
AFE-R360

- Intel® Core™ Ultra processors
- NVIDIA A4500 MXM/Hailo-8 AI module
- AI performance up to 17 TFLOPs (FP32)



COM HPC Client Size A
SOM-A350

- Intel® Core™ Ultra processors
- Integrated NPU in SoC
- AI performance up to 32 TOPs

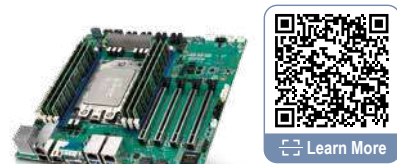
intel

AMD



COM Express Basic T6
SOM-5885

- Intel® Core™ Ultra processors
- Integrated NPU in SoC
- AI performance up to 32 TOPs



Micro-ATX
AIMB-592

NVIDIA
RTX

- AMD EPYC™ 7003 series processor
- 2x NVIDIA RTX A6000
- AI performance up to 151 TFLOPs (FP32)



Mini-ITX
AIMB-2210

- AMD Ryzen™ 8000 series processor
- Integrated XDNA NPU in SoC
- AI performance up to 39 TOPs



COM Express Compact T6
SOM-6873

- AMD Ryzen™ 8000 series processor
- Integrated XDNA NPU in SoC
- AI performance up to 39 TOPs

AI on Modules and Boards

Qualcomm

Rockchip



Learn More

AOM 1.0 AOM-7721

- Qualcomm X Elite processor
- Integrated Hexagon NPU in SoC
- AI performance up to 45 TOPs



Learn More

OSM 1.1 ROM-2860

- Qualcomm QCS6490 processor
- Integrated Hexagon NPU in SoC
- AI performance up to 12 TOPs



Learn More

AOM Nano AOM-3411

- Rockchip RK3576 processor
- Integrated RKNN NPU in SoC
- AI performance up to 6 TOPs



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SMARC 2.1 ROM-6881

- Rockchip RK3588 processor
- Integrated RKNN NPU in SoC
- AI performance up to 6 TOPs

NXP



Learn More

AOM Nano AOM-3511

- NXP i.MX95 processor
- Integrated NPU in SoC
- AI performance up to 2 TOPs



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SMARC 2.1 ROM-5722

- NXP i.MX 8M Plus processor
- Integrated NPU in SoC
- AI performance up to 2.3 TOPs



Learn More

OSM 1.1 ROM-2820

- NXP i.MX93 processor
- Integrated NPU in SoC
- AI performance up to 0.5 TOPs

AI Acceleration Modules



Learn More

PCIe EAI-3101

- Intel® Arc™ A380E
- PCIe 4.0 x16 Riser Card
- AI performance up to 5 TFLOPs (FP32)



Learn More

PCIe EAI-3100

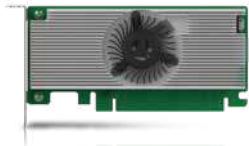
- Intel® Arc™ A370M
- PCIe 4.0 x16 Riser Card
- AI performance up to 4 TFLOPs (FP32)



Learn More

MXM EAI-2100

- Intel® Arc™ A370M
- MXM Type A 3.1
- AI performance up to 4 TFLOPs (FP32)



Coming Soon

PCIe EAI-3300

- 2x Hailo-8 AI Processor
- PCIe 3.0 x16 Riser Card
- AI performance up to 52 TOPs



Learn More

M.2 968DD00323

- Hailo-8 AI Processor
- M.2 Key B+M, 2242/2260/2280
- AI performance up to 26 TOPs



Learn More

M.2 968DD00322

- Hailo-8 AI Processor
- M.2 Key A+E, 2230
- AI performance up to 26 TOPs



Learn More

M.2 968DD00320

- Hailo-8 AI Processor
- M.2 Key M, 2242/2260/2280
- AI performance up to 26 TOPs

Regional Service and Customization Centers

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86-512-5777-5666

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