

# Edge AI Solutions

Powering Vision AI & GenAI with  
Software Acceleration

- ✓ Overview
- ✓ Solution Offerings
- ✓ Software & Services
- ✓ Application Stories
- ✓ Selection Guide



**Edge AI  
SDK**

**ADVANTECH**

*Enabling an Intelligent Planet*

[www.advantech.com](http://www.advantech.com)

# AIRReady



AMD  intel  NVIDIA  Qualcomm  HAILO  PHISON  APPRO  Photoelectron  奥比中光  ORBEC

## Edge AI-Ready Solutions

Advantech's edge AI solutions deliver scalable, secure, and domain-focused AI computing from inferencing to post-training. Combining Vision AI and Generative AI capabilities with bundled software toolkits, these plug-and-play platforms enable real-time analytics, intelligent decision support, and data privacy at the edge, empowering vertical markets with faster deployment and ecosystem-driven innovation.

### Scalable Edge AI Computing

Comprehensive product portfolio leveraging CPU, NPU, and GPU acceleration.

### Software Toolkit Bundled

Delivers a plug-and-play turnkey solution with integrated essential AI software tools.

### Vertical Market Oriented

Accelerates development through AI acceleration and seamless peripheral integration.



## Vision AI

- Object Detection
- Defect Inspection
- Behavior Analysis



## Generative AI

- Document Draft
- Data Summary
- Decision Assistance

### Turnkey Software

#### Vision AI Software Tools

Edge AI SDK/ Inference Kit

CLIKA

#### Gen AI Software Tools

EdgeAI SDK / GenAI Studio

aiDAPTIV+

UniInfra™

TensorRT™

HailoRT

OpenVINO

Qualcomm QNN

WEDA (WISE-Edge Developer Architecture) Edge

Linux Kernel / BSP Launcher



Edge AI Inference Systems

Edge AI Gateways



Edge AI HPCs



AI Acceleration Modules



Industrial AI Cameras



GPU and AI Modules

- Compact & Reliable System for 24/7
- GPU Built-in SoC or NPU/ MXM Modules
- Connectivity for Versatile Interface Cameras

- Edge HPC Workstation with Low Noise Design
- Supports 1-4 PCIe GPU Modules
- Model Post-training & Inference Software

# Edge AI HPCs

## AIR-500/400 Series

Designed for data-intensive edge AI workloads, such as LLMs, medical imaging, and more, the AIR-500/400 series combines server-grade processors with powerful multi-GPU acceleration. These ruggedized systems deliver sustained performance for LLM fine-tuning and inference, ensuring reliable operation in industrial environments through advanced thermal management.



### Key Features



#### Comprehensive System Product Portfolio

Scalable AI computing power for inference and local training



#### Edge HPC Workstation with Low Noise Design

Smart FAN control with silence thermal design



#### AI Acceleration & Validated Peripherals

Designed for heavy graphics and multi-card configurations (up to 4 GPUs)



#### Software Bundled Turnkey Solution

Allowing fine-tune, quantize, and deployment

### Product Selection

#### Multiple AI Cards



AMD

#### AIR-420

- AMD Ryzen 7000/9000, EPYC 4005
- Support up to 192GB DDR5
- 1000~2000W (CRPS)



AMD

#### AIR-540

- AMD EPYC 8004
- Support up to 576GB DDR5
- 2000~3200W (CRPS)

#### Single AI Card



AMD

#### AIR-410

- AMD Ryzen 8000
- Support up to 96GB DDR5
- 850W PSU



intel.

#### AIR-510

- Intel® Core™ 14th gen
- Support up to 192GB DDR5
- 850W PSU

## Scalable AI Computing with GPU Compatibility



**NVIDIA RTX PRO™  
6000 Blackwell Max-Q  
Workstation Edition**



**NVIDIA® Tesla® L40S**



**Qualcomm AIC 100 Ultra**



**Intel ARC Pro B60**

## Seamless GenAI Applications at the Edge

AIR-500 and AIR-400 series provide more efficient LLM fine-tuning capabilities, adopting AI SSD, aiDAPTIV+, and GenAI Studio. GenAI Studio support LLM post-training with aiDAPTIV+, and Inference acceleration with UniInfra

### Expand GPU Memory



Save **90%** of GPU costs for fine-tuning with SQ aiSSD

### Maximize GPU Utilization



**UniInfra™  
Inference Engine**

Boosted **2X** concurrent user request capability with UniInfra

### No-Code, GUI-Based Software Tool



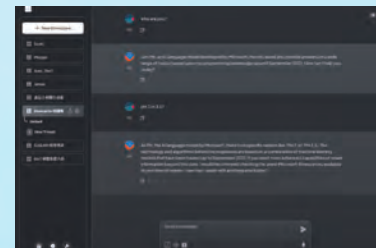
#### LLM Applications

- UniInfra Acceleration
- Chatbot Integration
- Instant Validation & Online



#### Edge AI Management

- System Monitoring & Alerts
- User Authority Management



#### LLM Post-training

- With aiSSD support
- No-code training setup
- LLM Post-training monitor

# AI Appliance Systems

## AIR-300/100 Series

Featuring a compact, low power design with scalable AI performance supported by a wide range of AI accelerator cards and GPUs. Its rugged and reliable thermal design enables easy integration at the edge or within existing infrastructure for LLM inference and vision AI applications.



### Key Features



#### Flexible and Expandable

Enhanced AI computing performance via M.2 and MXM GPU cards.



#### Advantech Edge AI SDK

User-friendly software toolkits for computer vision and benchmark.



#### Small but Mighty

Vertical I/Os deliver versatile connectivity for multifunction peripherals and video capture.



#### Reliable for Harsh Environments

A compact and rugged design supports a wide operating temperature range and wide voltage input.

### Product Selection



**HAILO**  
Hailo-8™

#### AIR-120

- Intel Atom® processor
- 26 TOPS AI capability



**NVIDIA RTX HAILO**  
Hailo-8™

#### AIR-310

- 12th/13th/14th Gen. Intel® Core™ i3/i5/i7/i9
- 1 x MXM 3.1 Type-A GPU, up to 60W



**NVIDIA RTX**

#### AIR-355

- Intel® Core™ Ultra Series 3
- 1x MXM Type A GPU
- 1 x M.2 B-Key
- 1 x M.2 E-Key



Performance/ Watt

# Edge AI Acceleration Modules

## EAI Series

NPU- and GPU-powered AI acceleration modules provide a fast, simple path to adding AI to edge platforms. Delivering high throughput, low latency, and efficiency, Advantech partners with leading AI chip vendors to offer cost- and power-efficient M.2, MXM, and PCIe modules for seamless edge-to-edge AI upgrades.



### Key Features



#### Flexibility

Standard form factor modules enable quick integration with M.2, MXM, PCIe



#### Diversity

Ranges from entry-level to high-end for diverse AI applications



#### Software Toolkit

Comprehensive toolset enables rapid edge AI setup and workflows

### Product Selection

	 <b>Hailo-8™</b>	 <b>Metis™</b>	 <b>DX-M1</b>
<b>M.2</b>	 EAI-1200 Up to <b>26</b> TOPS	 EAI-1941 Up to <b>214</b> TOPS	 EAI-1961 Up to <b>25</b> TOPS
<b>MXM</b>	 EAI-2300 Up to <b>52</b> TOPS		 EAI-2161 Up to <b>50</b> TOPS

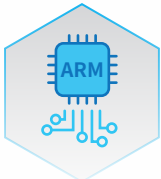
# AI Gateways

## AIR-000 Series

Featuring a compact, energy-efficient Arm-based architecture, this rugged system delivers scalable AI performance. Its reliable, both FAN and fanless design enables seamless integration at the edge, enables seamless integration at the edge for real-time visual analytics and industrial inspection applications

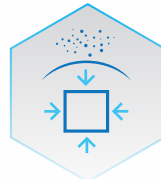


### Key Features



#### Arm-Based AI Platform

Optimized for AI tasks with Arm architecture performance.



#### Compact & Rugged Design

Built for harsh environments in minimal space.



#### Versatile Vision & I/O

Supports diverse cameras and sensor integrations easily.



#### Integrated SW/HW Deployment

Hardware and software co-designed for faster rollout.

### Product Selection



# Vision AI Cameras

## Cam Series

Vision AI applications are rapidly expanding, demanding advanced imaging and intelligent processing. By integrating optics, AI algorithms, and edge computing, Advantech Vision AI cameras enable real-time recognition, analysis, and decision-making across manufacturing, logistics, and smart city applications.



### Key Features



**2D/3D Solution**  
Configure settings to suit the actual environment for optimized quality result



**Profile Pre-load**  
Save parameter profiles and quickly reuse them for new field fine-tuning



**Software Integration**  
Unified software interface for evaluation testing and image application development



**System Validation**  
Reduce evaluation time and accelerate iterative product development

### Product Selection

#### 2D Camera



**CAM-2000 Series**  
2D Long-Distance Device  
USB / GMSL interface

#### 3D Camera



**CAM-5000 Series**  
3D Depth Sensing Device  
USB / GMSL interface

#### 2D / 3D + AI System



**CAM-7000 Series**  
Vision AI All-in-One System  
NVIDIA / Qualcomm CPU

# End-to-End Edge AI Solutions

## Versatile, Accelerated Deployment at Every Phase

Advantech offers end-to-end Edge AI software services designed to simplify AI adoption from development to deployment. Combining Advantech's Edge AI SDK with enterprise software distribution for platforms such as NVIDIA AI Enterprise and Edge Impulse, the solution accelerates model development, deployment, and ongoing management. Backed by Advantech's ecosystem of partners and tools, it enables seamless integration, cross-platform support, and scalable Edge AI innovation.



Hardware and Software Integration



Global Services and Supports



AI Workflow Acceleration



Integrated Ecosystem



# Edge AI SDK

## Rapid AI SDK Development Toolkit

The Advantech Edge AI SDK provides a comprehensive toolset designed for seamless edge AI development. With pre-configured hardware and optimally tuned software, it delivers a plug-and-play experience, seamless toolkit compatibility, and effortless management of large-scale edge deployments.

# Edge AI SDK

### GenAI Studio

Cost-effectively create, evaluate and integrate custom LLMs on-premises



### Inference Kit

Quickly create and evaluate efficient and compatible AI runtime on embedded OSs



### Orchestration Platform

Efficiently manage AI model/app updates on massive edges and integrate MLOps



# Complete AI and Simulation Software Platform

NVIDIA Enterprise delivers unified, secure AI and immersive virtual environments designed to accelerate your digital transformation. Seamlessly deploy optimized AI workflows and real-time digital twins across industries like healthcare, manufacturing, smart cities, and more. Backed by dedicated enterprise support to ensure reliability, robust security, and future-ready operations.



## NVIDIA AI Enterprise

AI Development, Deployment & Inferencing

- Streamlined AI workflows
- Secure, scalable IT environments
- Ready-pretrained AI models
- Enterprise-grade support & security

## NVIDIA Omniverse™

Digital Twins, Simulation & 3D Content

- Real-time, photorealistic 3D worlds
- Unified industrial digital twins
- Collaborative 3D workflows
- Physically accurate simulation

# Edge Impulse

Develop Edge and Physical AI with Edge Impulse to streamline MLOps. Build, train, optimize, and deploy models with low latency and high security. Combined with Advantech industrial hardware, enable autonomous, context-aware systems delivering real-time intelligence at the edge.



## Development Kit and Platform

- NVIDIA® Jetson Thor™ Series
- Qualcomm Dragonwing™ QCS6490 Series
- Qualcomm Dragonwing™ IQ-X and IQ9 Series

## Edge Impulse Built-in

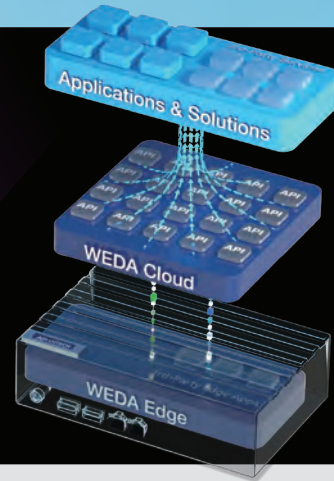
- Pre-verified Advantech Devices
- Pre-installed Edge Impulse Tools for AI Inference
- Exclusive 3-month Starter Bundled Package

## Market-Driven Adoption

- Robotics & AMR – Safety in Factories
- Smart Manufacturing – Anomaly Detection
- Smart Retail – Product Identification

# WEDA: WISE-Edge Developer Architecture

Closing the Last Mile Gap in Edge AI Deployment



## WEDA Cloud

- Public / On-prem Cloud
- Remote Device / Data Management
- OTA: AI model, Container
- MLOps, Digital Twin Interface

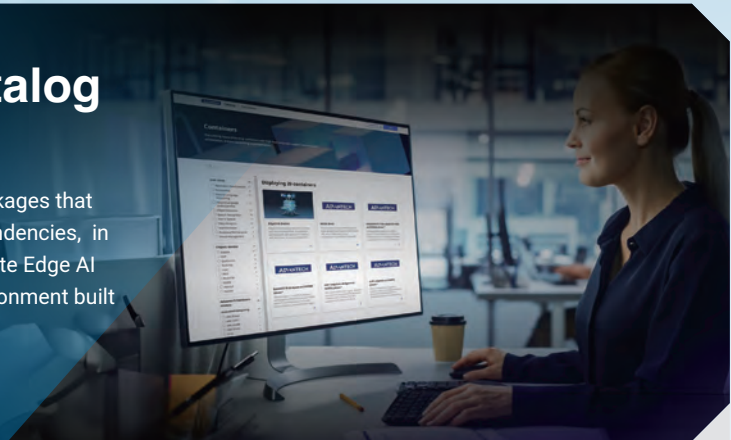


## WEDA Edge

- Silicon-Optimized Ready-to-Dev Container Library
  - Cross-platform Inference Runtime
  - Plug-and-Play AI Engines: Computer Vision, GenAI/LLM
- Seamless OT-to-IT Digital Twin Integration
- Universal Physical AI Integration Framework
- Hardened Remote Orchestration & Security

# Advantech Container Catalog (ACC)

ACC Containers deliver standardized, portable software packages that include all the essentials, including code, libraries, and dependencies, in one seamless bundle. They empower developers to accelerate Edge AI innovation with a consistent and optimized application environment built for Advantech hardware.



## KEY OFFERINGS

- Turnkey Software Solutions
- Edge-to-Cloud Connectivity
- Hardware-Optimized Containers
- Rapid Development & Scalability

## KEY BENEFITS

- Launch AI apps instantly using prebuilt, containerized pipelines
- Accelerate model delivery with built-in quantization and optimization tools
- Bridge edge-to-cloud workflows with WEDA API orchestration
- Driving the end-to-end AIoT lifecycle via continuous data harvesting and automated edge model orchestration.

# Success Stories

## Visual AI Agent for Smart Warehouse Safety & Operations

As warehouse operations become more complex and labor constraints intensify, ensuring safety and efficiency has become increasingly challenging. By deploying edge-based visual AI agents with multi-camera perception and real-time inference, enterprises can achieve continuous monitoring, intelligent anomaly detection, and behavior analysis—enabling warehouses to operate proactively and adapt dynamically.



### Challenges

- Multi-modal processing across vision and contextual inputs
- High-bandwidth, multi-camera integration
- Space-constrained warehouse settings

### Solutions

AIR-075 powered by NVIDIA Jetson Thor with high-bandwidth multi-camera support and compact design

### Benefits

Reducing safety risks by up to 70% and achieving sub-10ms response without retraining.



## Visual AI Agent for Smart Traffic Monitoring

Urban traffic is becoming increasingly complex due to growing congestion and data demands, making real-time monitoring and decision-making essential. By leveraging edge-based visual AI agents with multi-camera perception and on-device inference, cities can achieve continuous traffic analysis, accurate violation detection, and adaptive control, improving both safety and operational efficiency.



### Challenges

- High-volume video data drives bandwidth and cloud cost challenges.
- Multi-camera systems are complex to deploy and integrate.
- Legacy systems lack accuracy and fail to meet long-term infrastructure needs

### Solutions

AIR-055 powered by Qualcomm Dragonwing IQ-9075 delivers 100 TOPS, supports multi-camera deployment, and rapid AI integration.

### Benefits

Enable real-time traffic monitoring and detection to enhance safety, reduce incidents, and deliver scalable, low-latency AI with lower cloud costs.



# Roadside AI for Autonomous Bus Safety

To address driver shortages, a Japanese transit agency is deploying Level 4 autonomous buses. However, blind spots at complex intersections increase collision risks. An AI-powered Vehicle-to-Infrastructure (V2I) perception system acts as an external “eye,” providing real-time safety insights.



## Challenges

- Fit within existing streetlight control boxes
- Continuous operation in harsh outdoor environments
- Workstation-level GPU for real-time blind-spot detection
- Optimized for limited roadside power supply

## Solutions

AIR-310 Edge AI System built with NVIDIA RTX 2000 Ada MXM GPU and dual 2.5G Ethernet

## Benefits

Real-time V2I detection reducing accidents by up to 90%.



# AI-Enabled CT Analysis at the Edge

Advantech delivers an edge AI CT imaging analysis solution with a medical AI partner, enabling real-time multi-disease detection, automated report generation, enhanced privacy protection, and improved diagnostic efficiency for hospitals.



## Challenges

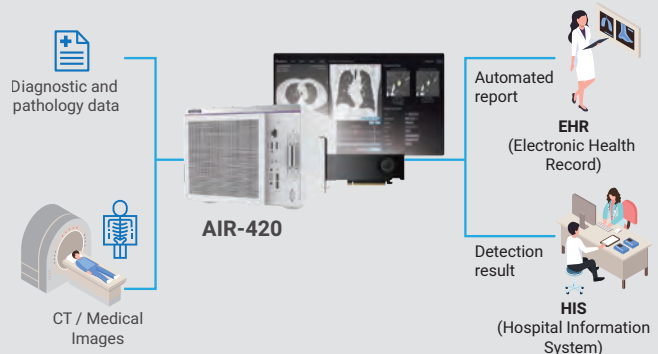
- Real-time processing of large 3D CT datasets
- Integrated medical image analysis and automated reporting
- Reliable, compact, low-noise systems for clinical environments

## Solutions

AIR-420 Powerful Edge AI HPC with Dual NVIDIA RTX™ 2000 Ada Generation GPUs

## Benefits

70% reduction in screening workflow time and 74% reduction in total patient waiting time



# Product Selection Guide

## Edge AI HPCs



Spec / Model	AIR-410	AIR-411	AIR-420	AIR-510	AIR-540
CPU	AMD Ryzen™ Embedded	Intel® Core Series 2(Bartlett Lake)	AMD Ryzen™ /EPYC™ Embedded	12th/13th/14th Gen. Intel® Core™	AMD EPYC™ Embedded 8004
GPU / Accelerator	Discrete GPU	Discrete GPU	Discrete GPU	Discrete GPU	Discrete GPU
Memory Type / Max	DDR5/ 96G	DDR5/ 96G	128GB , Ryzen 7000 series) 192GB ,Ryzen 9000 series) 192GB , EYPC 4005 series)	DDR5/ 192G	DDR5/ 576G
Ethernet	3 x 2.5GbE	1 x 2.5GbE 1 x 1GbE	2 x 2.5GbE 1 x 10GbE	2 x 1GbE	2 x 2.5GbE 2 x 10GbE
Ethernet Controller	Intel i226	Intel i219 / i226	B650	Intel i219 / i226	Intel I226-LM / X710-AT2
Display	1 x DP + 1 x HDMI 2.0	1 x HDMI , 2 x DP	4 x HDMI 2.0	2 x HDMI , 2 x DP	1 x VGA
USB	4 x USB 3.2 Type-A 2 x USB 2.0	4 x USB 3.2 Type-A	4 x USB 3.2 Type-A 2 x USB 2.0 1 x USB Type-C	3 x USB 3.2 Type-A	3 x USB 3.2 Type-A
COM	3 x RS-232, 1 x RS-232/422/485	2 x RS-232		5 x RS-232, 1 x RS-232/422/485	1 x RS-232
GPIO / DIO	2 x 8-bit	1 x 8-bit	1 x 8-bit	1 x 8-bit	-
Storage SSD	2 x 2.5" SATAIII	2 x 2.5" SATAIII	2 x 2.5" SATAIII	8 x 2.5" SATAIII	-
Storage M.2 M-Key	1 x 2280 NVMe	1 x 2242	1 x 2280 NVMe	1 x 2280 NVMe	2 x 2280 NVMe
Expansion M.2 B-Key	1 x 2242	-	-	-	-
Expansion M.2 E-Key	1 x 2230	1 x 2230	1 x 2230	-	-
PCIe	1 x PCIe x16	1 x PCIe x16	2 x PCIe x4 slot	2 x PCIe x4 slot	4 x PCIe x 16 slot
Power Input	850W built-in	850W built-in	Optional 1200W/2000W	850W built-in	2700W built-in
Operating Temperature	0 ~ 45°C	0 ~ 50°C	0 ~ 45°C	0 ~ 40°C	0 ~ 40°C
Dimensions (W x H x D, mm)	240 x 190 x 380.7	240 x 190 x 380.7	278 x 215 x 480	380 x 176 x 466.83	438 x 440 x 183
Operating System	Windows / Linux	Windows / Linux	Windows / Linux	Windows / Linux	Windows / Linux

## AI Appliance Systems



Spec / Model	AIR-120	AIR-150	AIR-310	AIR-355
CPU	Intel Atom™ x7433RE / N97 / i3-N305	13th Gen Intel® Core™ i3 / i5	12th/13th/14th Gen. Intel® Core™	Intel® Core™ Ultra Series 3
GPU / Accelerator	Hailo-8	Hailo-8	MXM GPU Card	MXM GPU Card
AI Performance	26 TOPS	26 TOPS	104 TOPS	SoC up to 180 TOPS MXM 12.99 TFLOPS
Memory Type / Max	DDR5 / 16GB	DDR5 / 64GB	DDR5 / 64GB	DDR5 / 128GB
Ethernet	1 x 2.5GbE 1 x 1GbE	1 x 2.5GbE 1 x 1GbE	3 x 1GbE	4 x 2.5GbE
Ethernet Controller	Intel i226 /i210	Intel i226	Intel i219 / i226	Intel I226-LM
Display	1 x HDMI 1 x DP	2 x HDMI 2.0	DP + HDMI 2.0	DP + HDMI 2.1
USB	2 x USB 3.2 Type-A 2 x USB 2.0	3 x USB 3.2 Type-A 1 x USB 2.0	4 x USB 3.2 Type-A	7 x USB 3.2 Type-A 1 x USB 2.0
COM	2 x RS-232, 2 x RS-232/422/485	1 x RS-485 2 x RS-232/422/485	2 x RS-232/422/485	2 x RS-232/422/485
CANBus	2	2	2	1
GPIO / DIO	1 x 8-bit	1 x 8-bit	1 x 16-bit	1 x 8 bit
Storage SSD	1 x 2.5" SATAIII	SATA Slim	1 x 2.5" SATAIII	-
Storage M.2 B-Key	1 x 2280 (SATA, PCIe x1)	-	-	-
Storage M.2 M-Key		1 x 2280 NVMe	1 x 2280 NVMe	1 x 2280 NVMe 1 x 2242 NVMe
Expansion M.2 B-Key	1 x 3052 (PCIe x2 / USB3.0, 5G)	1 x 3052 /3042	-	1 x 3052
Expansion M.2 E-Key	1 x 2230	1 x 2230	1 x 2230	1 x 2230
Power Input	12–24V DC	12–24V DC	12–24V DC	12-24V DC
Operating Temperature	-20 ~ 60°C	-20 ~ 60°C	-20 ~ 55°C	-10 ~ 50°C
Dimensions (W x H x D, mm)	176 x 112 x 66.4	156 x 112 x 60	215 x 225 x 55	215 x 190 x 60
Operating System	Windows / Linux	Windows / Linux	Windows / Linux	Windows / Linux

## AI Gateways



Spec / Model	AIR-021	AIR-030	AIR-055	AIR-075
CPU	NVIDIA Jetson Orin NX / Jetson Orin Nano	NVIDIA Jetson AGX Orin	Qualcomm Kryo Gen 6 IQ-9075M	NVIDIA Jetson Thor T5000™ / T4000™
AI Performance	157 / 117 / 67 TOPS	Up to 200/ 275 Sparse TOPS	Up to 100 dense / 200 sparse INT8 TOPS	Up to 2070/1200 TPFPLOPs
Memory Type / Max	LPDDR5 / 16GB / 8GB	LPDDR5 / 32GB / 64GB	LPDDR5 / 36GB	LPDDR5X / 128GB/64GB
Ethernet	1 x 2.5GbE, 1 x 1 GbE	3 x 2.5GbE	2 x 2.5GbE	4 x 10GbE / 2 x 10GbE
Ethernet Controller	Intel i226 / Realtek 8111	Intel i225	Realtek RTL8221D	Marvell AQR113
Display	1 x HDMI	1 x HDMI	2 x HDMI, 2 x DP	1 x HDMI, 1 x DP
USB	4 x USB 3.2 Type-A 1 x USB Type-C	4 x USB 3.2 Type-A 1 x USB 3.2 Type-C	2 x USB 3.2 Type-A, 2 x USB 3.2 Type-C, 2 x USB 2.0	2 x USB 3.2 Type-A 2 x USB 3.2 Type-C
COM	2 x RS-232/422/485	4 x RS-232/422/485	3 x RS-232/422/485	2 x RS-232/422/485
CANBus	1	2	2	2 / 0
GPIO / DIO	1 x 8-bit	1 x 16-bit	1 x 8-bit	1 x 8-bit
Storage SD Card	1	1	-	-
Storage M.2 M-Key	1 x M.2 2280, 1x M.2 2242	-	1 x 2280 NVMe	1 x 2280 NVMe, 1 x 2242 NVMe
Expansion M.2 B-Key	1 x 3052	1 x 3052 1 x 2280	1 x 3052	1 x 3052
Expansion M.2 E-Key	1 x 2230	1 x 2230	1 x 2230	1 x 2230
PCIe	-	1 x PCIe x16	-	-
Power Input	12–24V DC	9–36V DC	12–24V DC	19–36V DC
Operating Temperature	-20 ~ 50°C	-10 ~ 60°C	-20 ~ 55°C	-10 ~ 40°C
Dimensions (W x H x D, mm)	138 x 110 x 57	200 x 220 x 74	190 x 174 x 57.8	235.8 x 174 x 59
Operating System	Ubuntu	Ubuntu	Ubuntu	Ubuntu

## AI Vision Cameras



Model	CAM-2110-G	CAM-2210-G	CAM-2210-U	CAM-2220-G	CAM-2310-G	CAM-2320-G	CAM-5330-U	CAM-5530-U	CAM-5530-G
Product Type	2D Camera						3D Stereo Vision Camera		
Interface	GMSL2	GMSL2	USB3	GMSL2	GMSL2	GMSL2	USB3	USB3	GMSL2
"Resolution/Frame Rate"	2M (1920 x 1080) / 60fps	5M (2560 x 1920) / 30fps	5M (2560 x 1920) / 30fps	2.3M (1920 x 1200) / 60fps	4K (3840 x 2160) / 30fps (4 lane)	4K (3840 x 2160) / 30fps (4 lane)	RGB: 2M (1920 x 1280) / 30fps Depth: 1M (1280 x 800) / 30fps	RGB: 1M (1280 x 800) / 60fps Depth: 1M (1280 x 800) / 30fps	RGB: 1M (1280 x 800) / 60fps Depth: 1M (1280 x 800) / 30fps
Sensor	SONY IMX290	SONY IMX335	SONY IMX335	ONSEMI AR0234	SONY IMX415	ONSEMI AR0822	-	-	-
Shutter	Rolling Shutter	Rolling Shutter	Rolling Shutter	Global Shutter	Rolling Shutter	Rolling Shutter	RGB: Rolling Shutter Depth: Global Shutter	RGB: Global Shutter Depth: Global Shutter	RGB: Global Shutter Depth: Global Shutter
Lens FOV	M12 / F1.8 / 106.6°(D) x 92.6°(H) x 51.8°(V)	M12 / F1.6 / 130.7°(D) x 100°(H) x 73.4°(V)	M12 / F1.6 / 130.7°(D) x 100°(H) x 73.4°(V)	M12 / F1.8 / 113.4°(D) x 95.8°(H) x 59.6°(V)	M12 / F1.8 / 148.4°(D) x 125.4°(H) x 67°(V)	M12 / F1.8 / 130°(D) x 112°(H) x 62°(V)	RGB: 86°(H) x 55°(V) ± 3° Depth: 90°(H) x 65°(V) ± 3° @ 2m	RGB: 94°(H) x 68°(V) ± 3° Depth: 90°(H) x 65°(V) ± 3° @ 2m	RGB: 94°(H) x 68°(V) ± 3° Depth: 90°(H) x 65°(V) ± 3° @ 2m
Baseline	-	-	-	-	-	-	50mm	95mm	95mm
Depth Working Range	-	-	-	-	-	-	0.1m~20m+ (ideal: 0.26m~3m)	0.1m~20m+ (ideal: 0.25m~6m)	0.17m~20m+ (ideal: 0.25m~6m)
Dimension	29 x 39.5 x 52.9mm	29 x 39.5 x 54.3mm	29 x 39.5 x 51.2mm	29 x 39.5 x 55.7mm	29 x 39.5 x 54.4mm	29 x 39.5 x 56.4mm	90 x 25 x 30.7mm	124 x 29 x 27.7mm	124 x 29 x 36mm
Weight	86 g	82 g	85 g	87 g	87 g	87 g	99 g	135 g	164 g

## AI Acceleration Modules



Model	EAI-1200	EAI-1961	EAI-1921	SKY-MXM-2000A-8SDA	SKY-QUAD-6000QB-96	EAI-3500	EAI-3800	EAI-3931
SOC	Hailo-8	DeepX DX-M1	Hailo-10	NVIDIA RTX 2000 Ada	NVIDIA RTX PRO 6000 Blackwell Max-Q	Axelera Metis	Qualcomm Could AI100 Ultra	Intel Battlemage B60
TOPS	26	25	20	104	1457	214	870	197
VRAM	On-chip memory	4GB LPDDR5	8GB LPDDR4x	8GB GDDR6	96GB GDDR6	4GB LPDDR4x	128GB LPDDR4	24GB GDDR6
Interface	M.2 B+M-Key	M.2 M-Key	M.2 M-Key	MXM 3.1 Type-A	PCIe x16	PCIe x4	PCIe x16	PCIe x16
TDP	5 W	10 W	8 W	60 W	300 W	20 W	150 W	200 W

## Regional Service and Customization Centers

**China** Kunshan  
86-512-5777-5666

**Taiwan** Taipei  
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