Edge Selection Guide

Intelligence Begins at the Edge

/ Ecosystem Partners

/ Edge Computers Star Selections

/ Software and Security

/ Edge Value Solutions

Visibility

Agility

Scalability

Agentic AI

Reliability

Edge AI

Edge AI SDK
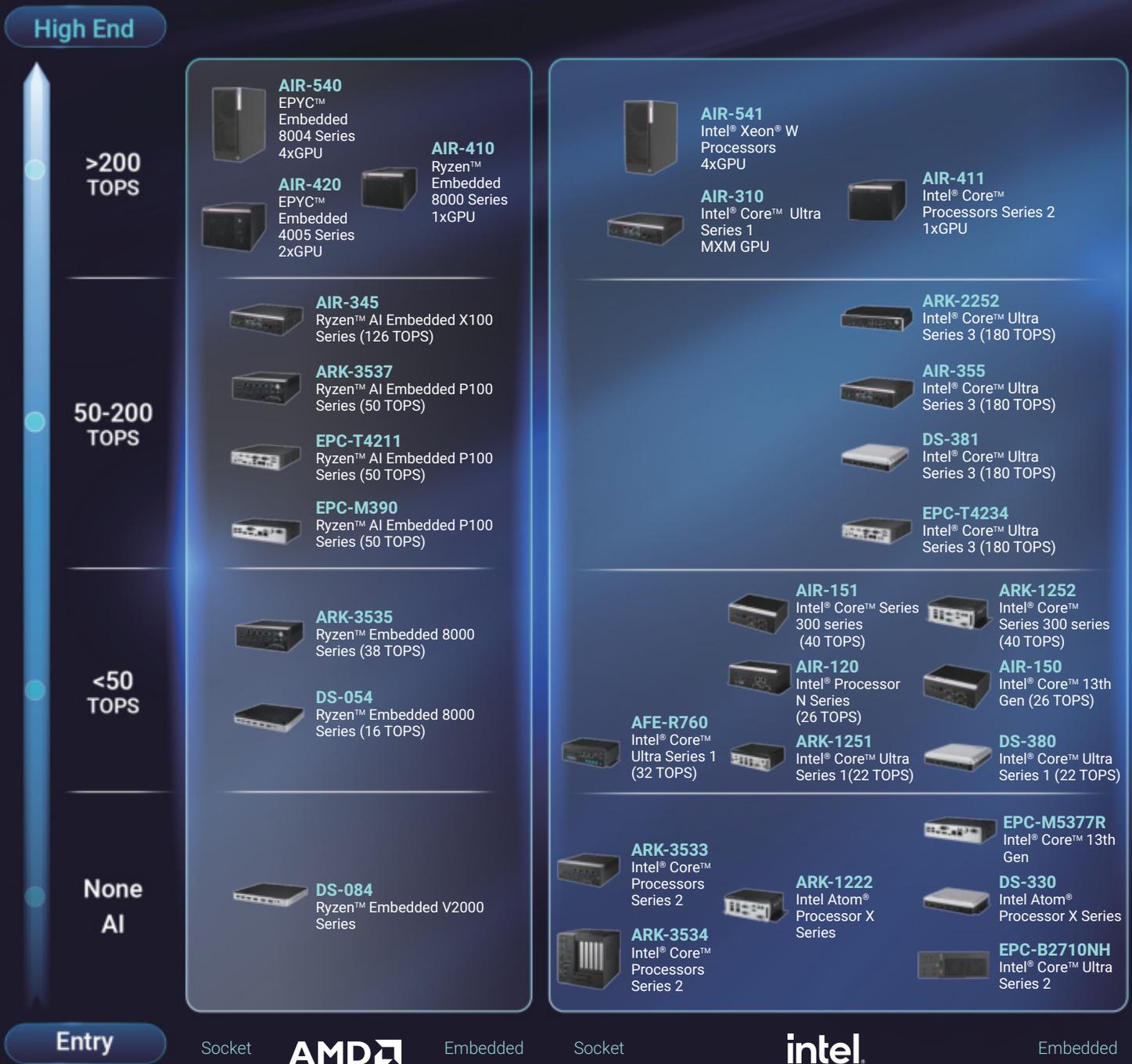
Robotic Suite

SQ Manager

ADVANTECH

Enabling an Intelligent Planet

www.advantech.com

Scale Beyond Foundations
The Complete Edge AI Journey

Edge AI is revolutionizing industries as the demand for real-time intelligence grows. Advantech leads the way in developing cutting-edge solutions that unlock the full potential of edge computing. Partnering with four key ecosystem leaders, we deliver a complete range of scalable, AI-driven solutions tailored to diverse industry needs. These collaborations ensure seamless integration of hardware, software, and AI tools, accelerating intelligent decision-making at the edge.

High End

>200 TOPS

AIR-540
EPYC™ Embedded 8004 Series 4xGPU

AIR-420
EPYC™ Embedded 4005 Series 2xGPU

AIR-410
Ryzen™ Embedded 8000 Series 1xGPU

AIR-541
Intel® Xeon® W Processors 4xGPU

AIR-310
Intel® Core™ Ultra Series 1 MXM GPU

AIR-411
Intel® Core™ Processors Series 2 1xGPU

50-200 TOPS

AIR-345
Ryzen™ AI Embedded X100 Series (126 TOPS)

ARK-3537
Ryzen™ AI Embedded P100 Series (50 TOPS)

EPC-T4211
Ryzen™ AI Embedded P100 Series (50 TOPS)

EPC-M390
Ryzen™ AI Embedded P100 Series (50 TOPS)

ARK-2252
Intel® Core™ Ultra Series 3 (180 TOPS)

AIR-355
Intel® Core™ Ultra Series 3 (180 TOPS)

DS-381
Intel® Core™ Ultra Series 3 (180 TOPS)

EPC-T4234
Intel® Core™ Ultra Series 3 (180 TOPS)

<50 TOPS

ARK-3535
Ryzen™ Embedded 8000 Series (38 TOPS)

DS-054
Ryzen™ Embedded 8000 Series (16 TOPS)

AIR-151
Intel® Core™ Series 300 series (40 TOPS)

ARK-1252
Intel® Core™ Series 300 series (40 TOPS)

AIR-120
Intel® Processor N Series (26 TOPS)

AIR-150
Intel® Core™ 13th Gen (26 TOPS)

AFE-R760
Intel® Core™ Ultra Series 1 (32 TOPS)

ARK-1251
Intel® Core™ Ultra Series 1(22 TOPS)

DS-380
Intel® Core™ Ultra Series 1 (22 TOPS)

None AI

DS-084
Ryzen™ Embedded V2000 Series

ARK-3533
Intel® Core™ Processors Series 2

ARK-3534
Intel® Core™ Processors Series 2

ARK-1222
Intel Atom® Processor X Series

EPC-M5377R
Intel® Core™ 13th Gen

DS-330
Intel Atom® Processor X Series

EPC-B2710NH
Intel® Core™ Ultra Series 2

Entry

Socket **AMD** Embedded   Socket **intel®** Embedded

AIR
Scalable Intelligent Solution.
Ready to Edge AI

AFE
Edge Control and Sensor Fusion
for Autonomous Robots

EPC
Fast Configuration and
Comprehensive offerings

ARK
From Compact to Powerful -
Empowering Edge Intelligence

DS
Bring Vision AI to
Every Digital Screen Solutions

AIR-075
NVIDIA® Jetson Thor™

EPC-T5294
NVIDIA Jetson Thor

AFE-A702
NVIDIA Jetson Thor

AIR-030
NIVIDIA Jetson AGX
Orin™ (275 TOPS)

AFE-R750-X1/2
NVIDIA Jetson Orin
AGX (275 TOPS)

AFE-R750-M1
NVIDIA Jetson Orin™
NX / Jetson Orin
Nano™ (100 TOPS)

DS-015
NVIDIA Jetson Orin
NX / Jetson Orin Nano
(100 TOPS)

AIR-021
NVIDIA Jetson Orin
NX / Jetson Orin Nano
(100 TOPS)

AIR-020R
NVIDIA Jetson Orin
Nano (67 TOPS)

EPC-R7300
NVIDIA Jetson Orin NX /
Jetson Orin Nano
(100 TOPS)

AIR-055
IQ9075M (100 TOPS)

AFE-A503
IQ9075M (100 TOPS)

AIR-051S
IQ-X (45 TOPS)

AIR-050S
QCS6490 (12 TOPS)

DS-011
QCS6490 (12 TOPS)

AIR-020X
NVIDIA Jetson Xavier™ NX
(21 TOPS)

AIR-020N/T
NVIDIA Jetson Nano™ /
Jetson™ TX2 NX
 (1.3 TOPS)

Qualcomm

◈ nVIDIA.
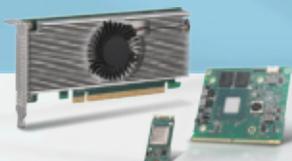
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Edge AI Solutions

Accelerating AI-Powered Applications

The range of use cases for Edge AI is highly diverse, necessitating varied AI computing capabilities and industrial designs. Advantech collaborates with multiple partners to develop edge AI solutions that integrate hardware and software, facilitating the accelerated deployment of AI across industries such as robotics, smart automation, medical, retail, and smart cities.

AMD · **intel** · **HAILO** · **NVIDIA** · **Qualcomm** · **APPRO** Photoelectron · **ORBBEC**

Key Solution Highlights

Application-Oriented
Scalable AI systems for a comprehensive portfolio offering

Vision AI Enabled
Validated 2D / 3D cameras with systems for vision AI solutions

Software Turnkey
No-code GUI & API support to ease the AI application development

Ecosystem Co-creation
Leverage AI ecosystems' add-on value to lower the barrier and shorten deployment time

Solutions Highlights

AI Gateways

AI Appliance Systems

Edge AI HPCs

Products

AIR-000 Series
Arm SoC Compact Systems

AIR-100/300 Series
x86 AI Inferencing Systems

AIR-400/500 Series
Edge HPC w/1-4 GPU Cards

AIR-500 Series

AIR-540

AMD EPYC™ Embedded 8004 Series Edge HPC
- AMD EPYC™ 8004 Series, up to 576GB DDR5
- VGA
- 2x 2.5GbE, 2x 10GbE; USB 3.2 Gen1; COM
- 4x PCIe Gen5 x16 slots (GPU), CXL module EDSFF 2C, NVMe: 2x PCIe Gen4 x4,VGA x1
- 0 ~ 40°C,100−240V, 438 x 440 x 183mm, Weight TBD

AIR-520

AMD EPYC™ Embedded 7003 Series Edge HPC
- AMD EPYC™ 7313P / 7543P / 7713P, up to 768GB DDR4
- VGA
- 2x 2.5GbE, 2x 10GbE, 4x USB3.2, COM, GPIO
- 6x 2.5" SSD, M.2 NVMe, 4x PCIe 4.0 x16 for GPU,VGA via BMC
- 0 ~ 40°C,100−240V, 380 x 176 x 467mm, 15.5 kg

AIR-510

Intel® Core™ 12~14th Gen Edge HPC
- Intel®12~14th Gen LGA Socket, up to 192GB DDR5
- 2xDP, HDMI
- GbE, 2.5GbE, 3x USB3.2, 6x COM , GPIO , Audio
- PCIe Gen4 x4, PCIe Gen3x4, 8x 2.5" SSD, M.2 NVMe
- 0 ~ 40°C,100−240V, 380 x 176 x 467mm,11 kg

AIR-400 Series

AIR-420

AMD EPYC™ Embedded 4005 Series & Ryzen™ Embedded 7000/9000 Series Edge HPC
- AMD EPYC™ 4005 & Ryzen™ 7000/9000 Series, up to 192GB DDR5
- 4x HDMI
- 2x 2.5GbE, 10GbE, USB: Type-C, 4x USB3.2, 2x USB2.0, 2x COM
- M.2 M-Key, M.2 E-Key, 2x 2.5" SSD ,PCIe Gen5 x16/x8 for GPU,2x PCIe Gen4 x4
- 0 ~ 50°C,100−240V, 278 x 215 x 480mm, 15.5 kg

AIR-411

Intel® Core™ Processors Series 2 Edge HPC
- Intel® Core™ Processors Series 2, up to 96GB DDR5 5600
- 2x DP, HDMI
- 2x 2.5GbE, USB: 2x USB3.2 Gen2 , 2x USB3.2 Gen1, 2x COM, Audio
- PCIex16 Gen4, 2GbE (max. 2.5G)
- 0 ~ 45°C,100−240V, 240 × 190 × 381mm, 6.9 kg

AIR-410

AMD Ryzen™ Embedded 8000 Series Edge HPC
- AMD Ryzen™ 7 PRO 8845HS / Ryzen™ 5 PRO 8645HS, up to 96GB DDR5
- HDMI, DP
- 3x 2.5GbE, 4x USB3.2, 2x USB2.0, 4x COM , GPIO , Audio
- PCIex16 Gen4 (x8 Signal), M.2 M-Key (PCIe Gen4), M.2 B-Key, M.2 E-Key, 2x 2.5" SSD
- 0 ~ 45°C, 100−240V, 240 × 190 × 381mm, 6.9 kg

AIR-100/300 Series

AIR-310

Intel® Core™ Ultra Series 1 Edge AI System
- Intel®12~14th Gen LGA Socket, up to 64GB DDR5
- DP1.4a, HDMI 2.0, MXM 3.1 Type A slot
- GbE, 2x 2.5GbE, 4x USB3.2, 2x COM, GPIO, CANBus x2, Audio
- 2x M.2, SSD opt.
- -20 ~ 55°C, 12−24V, 215 × 225 × 55mm, 2.5 kg

AIR-150

Intel® Core™ 13th Gen Edge AI System
- Intel® 13th Gen LGA Socket, up to 64GB DDR5
- 2x HDMI 2.0
- 2x GbE, 3x USB3.0, 1x USB 2.0, 3x COM, GPIO
- 3x M.2, SSD opt.
- -20 ~ 60 °C, 12−24V, 156 × 60 × 112mm, 1.3 kg

AIR-120

Intel® Processor N Series Edge AI System
- Intel® Processor N Series, up to 16GB DDR5
- HDMI 2.0, DP 1.4a
- 2.5GbE, GbE, 2x USB3.2, 2x USB2.0, 2x COM, 2x COM opt., GPIO opt., CANBus x2 opt., Audio
- 3x M.2, SSD opt.SSD(optional)
- -20 ~ 60 °C, 12−24V, 176 × 112 × 66mm, 1.6 kg

AIR-000 Series

AIR-075

NVIDIA® Jetson Thor™
- NVIDIA Jetson Thor, up to 128GB LPDDR5
- HDMI 2.1, DP 1.4a
- 4x 10GbE, 2x USB3.2 Type-C, 2x USB3.2 Gen2 Type-A, Micro-B(RCM only), 2x COM, CANBus x2, GPIO , Audio
- 2x M.2 M Key, 1x M.2 B Key and 1x M.2 E Key support
- -10 ~ 60°C, 12−36 VDC, 236 x 174 x 60mm, Weight TBD

AIR-055

Qualcomm Dragonwing™ IQ-9075
- Qualcomm Kryo Gen 6 SoC, up to 36GB DDR5
- 2x HDMI 1.4, 2x DP 1.4
- 2x 2.5GbE, 2x USB3.2 Type-C, USB3.2 Gen2 Type-A, USB3.2 Gen1 Type-A, 2x USB2.0, 3x COM, CANBus x2, GPIO , Audio
- M.2 3052 B-Key (5G), M.2 2230 E-Key (Wi-Fi/BT), M.2 2280 M-Key (NVMe)
- -20 ~ 60°C,12−24V , 190 × 174 × 60mm, Weight TBD

AIR-021

NVIDIA® Jetson Orin™ NX/ Orin™ Nano
- NVIDIA Orin NX / Orin Nano, up to 16GB DDR5
- HDMI 2.0b, MIPI over Type-C x2
- 2x GbE (2.5G x1 / 1G x1), 4x USB3.2 Type-A, USB (Only recovery mode)Type-C, 2x COM, GPIO , CANBus
- M.2 3052 B-Key (5G), M.2 2230 E-Key (Wi-Fi/BT), M.2 2280 & 2242 (PCIe), MicroSD
- -20 ~ 55°C,12−24V, 138 × 110 × 57mm, Weight TBD

Intelligent Edge Computers

Built for the Edge, Design for the Industry

Advantech ARK Edge Computers engineered for stability, expandability, and security, ARK platforms offer perfect fit I/Os and protocol support, AI-ready computing power add-on, and global certifications. The ARK series ensures reliable performance suited to vertical market applications, accelerating intelligent Edge transformation.

intel prestige partner **AMD** **HAILO**

Key Solution Highlights

Pre-Certified Security

IEC 62443-4-2 certified platforms ensure secure, resilient edge computing, regulatory compliance, and minimal downtime

Versatile I/O Expansion

Supports GPU/NPU for scalable Edge AI, with up to 25 I/O connections and 4 PCIe/PCI slots

International Certifications

Certified with CE, FCC, CB, UL, UKCA, CCC, and BSMI, ensuring global compliance and market access

Focused Market Applications

Energy Storage · Semiconductor · Robotic Arms · AIoT

Products

Brochure

The ARK Series is designed for manufacturing, automation, energy storage, and AIoT, enabling real-time monitoring, AI inference, remote management, robotic arm control, and vision inspection in applications with the full coverage fanless edge computers.

ARK-3000 High Performance Series

ARK-3535

AMD Ryzen™ Embedded 8000 Series Performance Edge Computer

- AMD Ryzen™ 8640U/8845HS, up to 96GB DDR5
- 2x HDMI, Type-C (DP ALT)
- 3x 2.5GbE, GbE, 8x USB, 6x COM, 2x CAN, Audio, 16bit DIO
- M.2 Key B 2280, M.2 Key E 2230, 2x 2.5" SSD
- -40 ~ 50°C, 9 ~ 36 VDC, 200 x 75 x 215mm, 3.2 kg

ARK-3534

Intel® Core™ Processors Series 2 Performance Edge Expandable Computer

- Intel® Core™ Processors Series 2 LGA Socket with H610E/R680E, up to 96GB DDR5
- 2x HDMI, optional DVI-D/DP/HDMI
- 1/3x 2.5GbE, GbE, 8x USB, 6x COM
- 3x 2.5" SSD slot, PCI/PCIe x4/PCIe x16, M.2 Key B, M.2 Key E
- -20 ~ 60°C, 9 ~ 36 VDC, 156/197.2 x 204 x 230mm, 6.41 kg

ARK-3533

Intel® Core™ Processors Series 2 Performance Edge Computer

- Intel® Core™ Processors Series 2 LGA Socket with H610E, up to 96GB DDR5
- 2x HDMI
- 3x 2.5GbE, GbE, 8x USB, 8x COM, 2x CAN, 16bit GPIO
- M.2 Key B 2280, M.2 Key E 2230
- -20 ~ 60°C, 9 ~ 36 VDC, 200 x 75 x 215mm, 3.2 kg

ARK-2000 Slim and Modular Series

ARK-2252

Intel® Core™ Ultra 3 Series Modular Edge Computer

- Intel® PTL-H404/ H484, up to 128GB DDR5
- 2x HDMI, Type-C (ALT)
- 4x GbE, 4x USB3, 2x USB2, USB-C, 6x COM, 2x CAN, GPIO, Audio
- M.2 3052 B-key, M.2 2230 E-key, M.2 2280 M-key, iDoor
- -20 ~ 60°C, 12~24V, 260 x 60 x 145mm, 2.5kg

ARK-2251

Intel® Core™ i3/i5/i7 Modular Edge Computer

- Intel® 13th Gen, up to 64GB DDR5
- 2x HDMI
- 3x GbE, 6x USB3, 6x COM, 2x CAN, GPIO, Audio
- mPCIe, M.2 2230 E-key, M.2 2280 M-key, mSATA (shared with mPCIe), iDoor
- -20 ~ 60° C, 260 x 54 x 140.2mm, 2.3kg

ARK-2232

Intel Atom® E3940 SoC Modular Edge Computer

- Intel Atom® E3940, up to 8GB DDR3L
- VGA, HDMI
- 2x GbE, 2x USB3, 4x USB2, 4x COM, GPIO, Audio
- mPCIe, M.2 2230 E-key, 2.5" SSD, mSATA (shared with mPCIe), iDoor
- -20 ~ 60° C, 260 x 44 x 140.2mm, 1.9kg

ARK-1200 DIN-Rail Series

ARK-1251

Intel® Core™ Ultra Series 1 DIN-Rail Edge Computer

- Intel® Core™ Ultra Series 1, 7-155U, 5-125U, up to 96GB DDR5
- HDMI, DP, CE-RED certified for Wi-Fi
- 3x GbE, 2x USB3, 4x USB2, 4x COM, DIO, Audio
- 3x M.2, idoor, Optional CANbus
- -20 ~ 60° C, 12~28VDC, 60 x 173x 141mm, 1.5 kg

ARK-1222

Intel Atom® Processor X Series DIN-Rail Edge Computer

- Intel® i3-N305/N97/x7433RE, up to 16GB DDR5, CE-RED certified for Wi-Fi
- 2x HDMI 2.0
- 2x GbE, 2x USB3, 2x USB2, 4x COM, DIO, Audio
- 2x M.2, idoor, Optional CANbus
- -20 ~ 60° C, 12~28VDC, 60 x 158 x 114mm, 0.94 kg

ARK-1221L

Intel Atom®/Celeron DIN-Rail Edge Computer

- Intel® x6413E/N6210/J6412, up to 32GB DDR4
- HDMI, DP
- 2x GbE, 2x USB3, 2x USB2, 2x COM, DIO, Audio
- 2x M.2, Optional CANbus
- -20 ~ 60° C, 12~28VDC, 60 x 158 x 114mm, 1.05 kg

ARK-1100 Compact Series

ARK-1125H

Intel® Processor N-series Fanless Edge Computer

- Intel® N200, up to 16GB DDR5
- 2x HDMI, CE-RED certified for Wi-Fi / 5G
- 2x GbE, 2xUSB3.2, 2xUSB2, 2x COM, 2xCAN, GPIO, Audio
- M.2 2280 B-key, M.2 2230 E-key
- -30 ~ 60°C, 12V, 133 x 46.4 x 94.2mm, 0.7kg

ARK-1125C

Intel Atom® Processor Fanless Edge Computer

- Intel® x7211E, up to 16GB DDR5
- HDMI
- GbE, 2xUSB3.2, 2xUSB2, 4x COM, GPIO, Audio
- M.2 2280 B-key, M.2 2230 E-key, M.2 2230 E key
- -30 ~ 60°C, 12V, 133 x 46.4 x 94.2mm, 0.7kg

ARK-1124H

Intel Atom® E3940 Fanless Edge Computer

- Intel Atom® E3940, up to 8GB DDR3L
- 2x HDMI
- 2x GbE, 4xUSB3.0, COM, Audio
- M.2 2230 E-key, 2.5" SSD, PCIe/mSATA, iDoor
- -20~60°C, 12V, 133 x 46.4 x 94.2mm, 0.7kg

ARK-1124C

Intel® Celeron™ Fanless Edge Computer

- Intel® Celeron™ N3350, up to 8GB DDR3L
- VGA
- GbE, 2xUSB3.0, 4x COM, Audio
- 2.5" SSD, PCIe/mSATA, iDoor
- -20~60°C, 12V, 133 x 46.4 x 94.2mm, 0.7kg

Embedded PCs
Empowering Edge Computing Innovation and Fast Integration

From modular boards to intelligent edge computers, EPC empowers industrial PCs with high integration, scalability, and reliability. Designed for flexible adaptation, its solutions fit 3.5", mITX, mATX form factor, both AIMB and MIOe boards. With CPU-to-GPU scalability and standardized chassis design, EPC accelerates edge computing innovation and speed time-to-market.

Key Solution Highlights
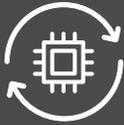
Flexible Adaptation
Fits 3.5", mITX, mATX, AIMB, and MIOe boards, effortlessly adapting to diverse hardware configurations and application demands

Scalable Edge Computing
From CPU to GPU, it delivers real-time, high-performance processing to power demanding and data-intensive Edge applications
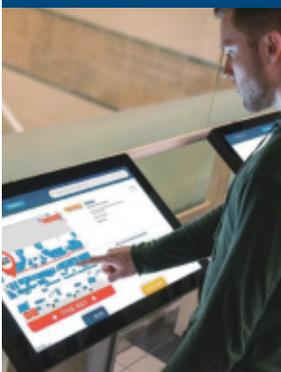
Faster Time-to-Market
Standardized chassis design (1U to 3U+) with streamlined assembly enables rapid system integration and accelerated field deployment

Focused Market Applications

Informative Kiosks	Factory Equipment	Medical Analysis	Self Check-in Kiosks

Products

EPC series enables businesses solutions to market with efficient speed to offer the ready-to-use embedded systems. Its solutions power smart factories with real-time control and predictive maintenance, optimize retail and self-service kiosks for seamless customer engagement, and accelerate medical analysis with fast, precise data processing—delivering scalable, reliable performance across industries.

EPC Performance Series

EPC-B2710NH

Intel Core™ Ultra Series 2 Processors AI System

- Intel® Core™ Ultra Series 2 Processors, up to 96GB DDR5
- HDMI 2.1, DP 1.4
- 2x 2.5GbE, 2x COM, 6x USB3.2, USB4 Type-C, 2x USB2
- 2x2.5" SSD, x16 PCIe, M.2 E-Key, M.2 M-Key
- 0 ~ 40°C, 12-24V Phoenix or ATX, 275 x 275 x 155mm, 6.5kg

EPC-B3523

AMD Ryzen™ Embedded 7000 Series Performance Edge AI system

- AMD Ryzen™ Embedded 7000 Series processors with B650 chipset, up to 128GB DDR5
- 2x HDMI2.0, DP
- 4x 2.5GbE,2x 2.5GbE(PoE), 10x COM, 8x USB3.2, USB2
- 3x 2.5" SSD, x16/4/1 PCIe, M.2 M-Key
- 0 ~ 40°C, 500W ATX Power, 360 x 133.4 x 310mm, 9.3kg

EPC-T5294

NVIDIA® Jetson Thor™ AI System

- NVIDIA Jetson T5000 with 14-core Arm® Neoverse®-V3AE 64-bit CPU with 128GB
- HDMI, DP
- 5GbE, QSFP28 (10GbE x4), 2x USB3, 2x USB-C, CANBus, GPIO, 2x COM, 2x GMSL
- M.2 E-Key 2230, M.2 B-Key 3052, M.2 M-Key 2280
- -10 ~ 50°C, 24V, 225 x 174 x 65mm, 3.2 kg

EPC Compact Series

EPC-T4410

AMD Ryzen™ Embedded 7 1U Slim Data Terminal

- AMD Ryzen™ 7 PRO 8840U, up to 96GB DDR5
- HDMI, DP
- 3x GbE, 4x USB3, 2x USB2, 2x COM, Audio (Mic-in, Line-out)
- M.2 E-Key 2230, M.2 B-Key 2242, M.2 M-Key 2280, x8 PCIe
- 0 ~ 45°C, 12-24 VDC, 188 x 44.2 x 188mm, 2.8 kg (6.17 lb)

EPC-T4293A

Qualcomm Platform 1U Box PC

- Qualcomm Snapdragon IQ-X up to 64GB LPDDR5
- 2x DP
- 3x GbE, 4x USB3, 2x USB2, 1x USB-C, 1x GPIO, Audio (Mic-in, Line-out)
- M.2 E-Key 2230, M.2 B-Key 3052, M.2 Key M 2280
- 0 ~ 45°C, 12-24VDC, 188x44.2x125 mm, 2.8 kg (6.17 lb)

EPC-T428A

Intel® 14th Gen 1U Slim Box PC

- Intel® 14th Gen. Core™ i5-14500T, up to 64GB DDR5
- 2x HDMI
- 2x GbE, 4x USB3, 2x USB2, 2x COM, GPIO, Audio (Mic-in, Line-out)
- M.2 Key M 2280
- 0 ~ 45°C, 12 VDC, 188 x 44.2 x 188mm, 2.8 kg (6.17 lb)

EPC-T4219

Intel Atom® 1U Edge Computer

- Intel Atom® X7433RE, up to 16GB DDR4
- HDMI, DP
- 2x GbE, 4x USB3, 2x USB2, 2x COM, USB-C, GPIO, Audio (Mic-in, Line-out)
- 1x 2.5" SSD, M.2 B-Key 2242
- 0 ~ 45°C, 12VDC, 188 x 44.2 x 188mm, 2.8 kg (6.17 lb)

EPC-T4210

AMD Ryzen™ Embedded 7 1U Slim Media Box PC

- AMD Ryzen™ 7 PRO 8840U, up to 96GB DDR5
- 4x DP
- 2x GbE, 4x USB3, 2x USB2, 2x COM, Audio (Mic-in, Line-out)
- M.2 E-Key 2230, M.2 M-Key 2280, PCIe x8
- 0 ~ 45°C, 12-24 VDC, 188 x 44.2 x 188mm, 2.8 kg (6.17 lb)

EPC-T2292A

Intel® 14th Gen with MXM 1U Box PC

- Intel® 14th Gen i9-14900, up to 96GB DDR5
- Quadro® A4500 / Quadro® 5000 Ada
- 2x GbE, 4x USB3, 2x USB2, 2x COM, Audio (Mic-in, Line-out)
- M.2 E-Key 2230, M.2 B-Key 3042, M.2 M-Key 2280
- 0 ~ 45°C, 12-24VDC, 188x44.2x125 mm, 2.8 kg (6.17 lb)

EPC-M5377R

Intel® 13th Gen Power 1U Box PC

- Intel® 13th Gen i7-1370PE, up to 64GB
- HDMI, DP, USB-C DP
- 2x GbE, 4x USB3, 2x USB2, USB-C, 3x COM, Audio (Mic-in, Line-out)
- M.2 E-Key 2230, M.2 B-Key 3052, M.2 M-Key 2280
- 0 ~ 45°C, 12-24VDC, 188 x 44.2 x 125mm, 2.8 kg (6.17 lb)

Robotics Solutions

Dedicated Design for Next-Gen Automation & Robotics

Advantech AS&R series designed with a focus on seamless robotic integration, our industrial computers deliver robust, high-performance solutions that drive efficiency and precision on the factory floor.

Robotic Suite

intel prestige partner

NVIDIA Elite Partner

Key Solution Highlights

Scalable Platforms
Supporting Intel, Nvidia, Qualcomm and Rockchip solutions with consistent form-factors

Modularized Solution
Chassis, cooler & camera daughter boards, 4/8 GMSL and future MIPI A-PHY, FPD-Link, GMSL3 extension boards for choice

Robotic Suite
Advantech Robotic development solution + optimized platform SDK, library and utility for SLAM, localization, navigation and perception

Integrated Sensor Solutions
Co-developed with sensor partner, leveraging LiDAR, camera, IMU and software vendors to provide easy integrated solution

Focused Market Applications

Basic Navigation and Path Planning

Multi-Robot Fleet Collaboration

Unpredictable Obstacles and Dynamic Paths

Products

AMR Control System

AFE-A702

NVIDIA® Jetson Thor™
- NVIDIA Jetson Thor, 14-core Arm Neoverse V3AE, up to 128GB LPDDR5
- HDMI2.0
- 6x USB3.2, 6x GbE, 2x COM, isolated CANBus x2, isolated DIO 16-bit
- M.2 3052 B-Key (5G), M.2 2230 E-Key (Wi-Fi/BT), M.2 M K-Key 2280 & 2242 (NVMe), 8x FAKRA
- -15 ~ 60°C, 20~28 VDC, 177 x 174 x 90mm, Weight TBD

AFE-R750

NVIDIA® Jetson Orin™ NX / AGX Orin
- NVIDIA® Jetson Orin™ NX / AGX Orin™, up to 64GB LPDDR5
- HDMI2.0
- 4x 2.5GbE, 4xUSB3, 2x COM, 2x isolated CANFD, isolated DIO8/16-bit, FAN connector
- M.2 E-Key, M.2 B-Key, M.2 M-Key, 4/8x FAKRA, 6/9-axis IMU
- -10 ~ 55°C(NX)/-10 ~ 60°C(AGX), 20 ~ 28 VDC, 177 x 174 x 60 mm(NX)/177 x 174 x 80mm(AGX), 1.83(NX)/2.66(AGX) kg

AFE-R770

Intel® 12/13/14th Gen Core™ i3/i5/i7/i9
- Intel® 12/13/14th LGA Socket with R680E or H610E, up to 64GB DDR5
- HDMI1.4
- 4x GbE, 4x USB3, 4x COM, 2x CAN, isolated DIO 8-bit, FAN connector, Audio
- M.2 E-Key, M.2 B-Key, 9-axis IMU
- -20 ~ 70°C, 9 ~ 36 VDC, 200 x 55 x 215mm, 2.7 kg (6 lb)

AFE-R760

Intel® Core™ Ultra Series 1
- Intel® Core™ Ultra Series 1, up to 96GB DDR5
- DP1.4
- 3x 2.5GbE, 2x USB-C,2x USB-A, 4x COM, 2x CANFD, 8-bit DIO
- M.2 E-Key, M.2 B-Key, 2x M.2 M-Key, 4x FAKRA
- -20 ~ 60°C, 12 ~ 24 VDC, 175 x 60 x 130mm, 1.6 kg (3.5 lb)

AFE-R761

Rockchip RK3588 Cortex®-A76 and A55
- Rockchip RK3588 Arm Quad Cortex-A76 2.4GHz and Quad Cortex-A55 1.8 GHz
- HDMI2.0
- 4x 2.5GbE, 2x USB3.2 & 4xUSB2.0, 2x CAN-FD, 4x RS-485, 8 bit DIO
- M.2 E-Key, M.2 B-Key, M.2 M-Key, 4/6x FAKRA, 4/6x AHD
- -40 ~ 70°C, 12 ~ 24 VDC, 175 x 120 x 56.7mm, 1.6 kg (3.5 lb)

AFE-A503

Qualcomm® Dragon Wing IQ9075M
- Qualcomm® Kryo Gen 6 SoC, up to 32GB LPDDR5
- HDMI1.4
- 4x GbE, 4xUSB, 4COM, 2x CAN FD, 16-bit DIO
- M.2 3052 B-Key (5G), M.2 2230 E-Key (Wi-Fi/BT), M.2 2280 M-Key (NVMe), 8x GMSL FAKRA
- -20 ~ 55°C, 20 ~ 36 VDC, 115 x 165mm (4.5 x 6.5 inches)

Eco Partner Alliance

Open-Source Community
THE AUTOWARE FOUNDATION · ROS · open source robotics alliance

Actively supporting the robotics community by enabling open-source software across diverse CPU platforms, creating reference designs, integrating toolkits with Robotic Suite, and contributing to avant-garde research and prototyping projects.

Domain-Focused SI/ISV
NODE · cogniteam · FIXPOSITION · maum.ai

Partnering with prestigious regional robotic software providers to deliver domain-focused, production-ready solutions. These collaborations address customers' system integration needs, based on Advantech's off-the-shelf computing, sensing, and embedded software packages.

Robotic Sensors
Bundled-selling & Co-selling
3D Camera · Ultrasonic · LiDAR · IMU · 2D Camera · Motor Controller
APPRO.PH · D3 · innodisk · e-con Systems · Orientalmotor · SICK · eToBrite · ORBBEC · RealSense · StereoLabs · XSENS · OUSTER

Collaborating with Tier 1 robotic sensor providers, ensuring that camera, IMU, and other sensors work with various computing platforms. Sensor partners in different regions provide design-in services for robotic manufacturers together with Advantech global teams.

AI-Powered Digital Screen Solutions

Built for Engagement, Designed for Always-On Retail

Advantech Digital Signage (DS) platforms deliver 4K/8K playback, multi-display outputs, validated leading CMS, and device-level security to help retailers, QSRs, transportation hubs, and venues publish the right content at the right time. From ultra-slim Android/Arm players to powerful 4-HDMI x86 systems, the DS series gives you long-life, 24/7 operation and remote fleet management for easy rollouts across hundreds of sites.

AMD | intel prestige | Windows

Ubuntu | chromeOS

Trellix | Acronis

Key Solution Highlights

Slim PC Players
SDM/OPS, Arm/x86 for any display solution

Flawless 4K / Multi-Screen
Reliable 4K, video wall, menu board, and interactive playback

Remote & Secure Management
DeviceOn, CMS integration, fleet-level updates and protection

Focused Market Applications

Advantech DS series is engineered for retail, QSR, hospitality, transportation, entertainment, and corporate communication scenarios. It supports Windows, Android, and modular SDM/OPS formats, and is tightly integrated with DeviceOn and signage CMS to simplify mass deployment, remote diagnosis, and content security. With 24/7 industrial-grade design and worldwide service, Advantech helps customers speed up signage rollouts, lower TCO, and create engaging, data-driven experiences across every screen.

Products   Brochure

DOOH DS-3 Series

DS-380

Outdoor Fanless Intellegent PC
- Intel® Core™ Ultra Series 1 135H, up to 48GB DDR5
- 4x HDMI
- 2x 2.5GbE, 2x USB 3.2 Gen1, 2x USB 2.0, Audio, IR Phone Jack
- M.2 2242 M key, M.2 2230 E key
- -10 ~ 50°C, 19 VDC, 180x177x38 mm, 2 kg (4.4 lb)

DS-330

Book-sized Fanless Outdoor System
- Intel Atom® x7000 series, Processor N series, Core™ i3 N305, up to 16GB DDR5
- 2x HDMI, USB-C
- 2x 2.5GbE, 4x USB 3.2 Gen1, USB-C, Audio, RJ12, 2x RS-232
- M.2 2242 M key, M.2 2230 E key
- -20 ~ 60°C, 12-24 VDC, 180x150x35 mm, 1.27 kg (2.8 lb)

EdgeMount System: DS-5 series

DS-540

VESA Through-Hole PC Designed for Kitchen Display Systems
- Intel® Processor N50, up to 16GB DDR5
- 1 x HDMI 2.1 TMDS, 1 x VGA, 1 x USB-C
- 1 x RJ45, 4 x USB 3.2 Gen1, 1 x USB-C, 2 x RS-232, Audio
- M.2 2242 M key, M.2 2230 E key
- 0 ~ 50°C, 12-24 VDC, 180 x 150 x 35mm, 1kg (2.2lb)

Ultra Slim DS-0 Series

DS-086

8K Ultra-slim Digital Signage Player
- Intel® Core™ Ultra 5 & Ultra 7, up to 48GB DDR5
- 4x HDMI 2.1 8K60/4K60 Ports Support for TV Wall
- RS232 , 2x USB 3.2 Gen1, 2x USB 2.0, 2x RJ45
- M.2 2242 M Key, M.2 2230 E Key
- 0 ~ 40°C, 19V DC-in, 180x177x22 mm, 0.9kg (1.98 lb)

DS-084

Ultra-slim 4K Digital Signage Player
- AMD Ryzen™ Embedded R2000 Series, up to 32GB DDR4
- 4x HDMI
- 2x RJ-45, 2x USB 2.0, 2x USB 3.2 Gen1, RS-232, IR, Audio
- M.2 2242 M Key SATA
- 0 ~ 40°C, 19V 3.42A DC-in, 180 x 177 x 23 mm, 0.9kg (1.98 lb)

DS-054

AMD Ryzen™ Embedded 8000 Series Performance Edge Computer
- AMD Ryzen™ 5 PRO 8640U / Ryzen™ 7 PRO 8840U, up to 96GB DDR5
- 4x HDMI, RS-232
- USB 3.2 Gen1, 2x USB2, USB-C
- 2x M.2 2230
- 0 ~ 40°C, 12~ 24 VDC, 180x177x29.9 mm, 0.9kg (1.98 lb)

DS-015

NVIDIA® Jetson Orin™ Nano / NX Compact AI Player
- NVIDIA® Jetson Orin™ Nano/NX, up to 16GB LPDDR5
- HDMI 1.4
- 2x RJ45, 3x USB 3.2 Gen1, USB-C, 2 x RS-232, 2x GMSL, Audio
- M.2 2280 128G, M.2 2230, M.2 2242
- 0 ~ 40°C, 12-24V DC-in, 180x177x29.9 mm, 0.9kg (1.98 lb)

DS-011

Qualcomm® QCS649 Edge-AI Box
- Qualcomm® QCS6490, up to 8GB LPDDR5
- 2x HDMI 2.1 TMDS
- 2x RJ45, 2x USB 3.2 Gen1, 2x RS232, 2x GMSL, Audio
- M.2 2280 M Key, M.2 3042 B Key, M.2 2230 E Key
- 0 ~ 40°C, 12-24V DC-in, 180x177x23 mm, 0.9kg (1.98 lb)

Modular DS-2 Series

DS-230

Smart Display Module
- Intel® 13th Generation Core™ Processor, up to 32GB
- HDMI 2.0 & DP1.4a from golden finger, DP1.4a, M.2 2242/2230
- 2x 2.5GbE, 2 x USB3.2 Gen2
- M.2 2242 M key, M.2 2230 E key
- 0 ~ 55°C, 12 VDC, 175 x 100 x 20 mm, 1kg (2.2 lb)

Mini PC DS-4 Series

DS-410

Atom® J6412 Palm-sized Mini PC
- Stylish Aluminum Die-cast Design with Intel Atom® J6412 processor
- Optimized GFX performace by on board 4GB/8GB DDR4 (3777Mhz)
- Support HDMI 2.0 up to 4K(3840 x 2160), and VGA up to Full HD
- Dual USB 3.0, Dual x Gb LAN, Dual x RS232 via RJ11 ports.
- Support Windows 11 IoT Enterprise LTSC

DS-450

Intel Atom® J6412 Palm-sized Player
- Stylish Aluminum Die-cast Design with Intel Atom® J6412 processor
- Optimized GFX performace by on board 4GB/8GB DDR4 (3777Mhz)
- Support 2 x HDMI up to 4K(3840 x 2160), 6 x USB, 2 x Gb LAN
- 2 x COM, Power on/off, Phoenix connector for device connection via DB9 ports.
- Small system with PWM fan control for silent and smooth fan speed
- Support Windows 11 IoT Enterprise LTSC

Edge Computing & Edge AI Software Solutions
Driving the Future of Edge Intelligence

Edge AI

Edge Security

Device Management

Operating Systems
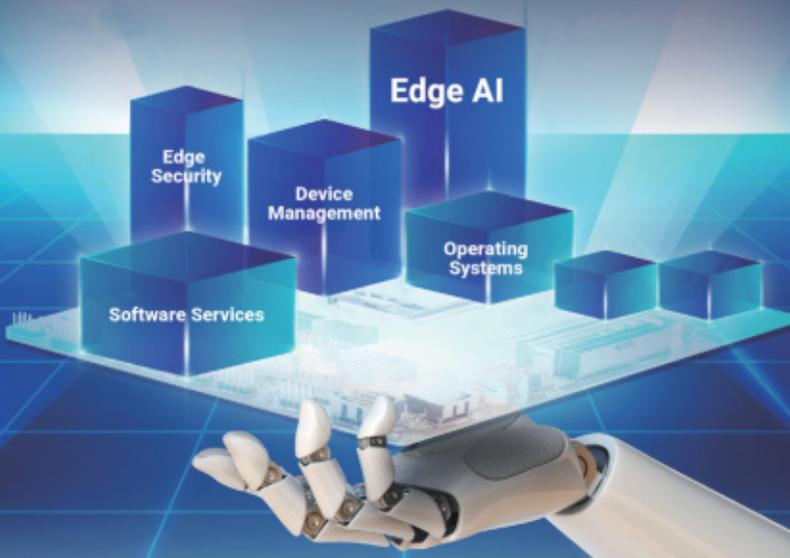
Software Services

With the comprehensive software ecosystem designed to empower intelligent edge operations, the solutions integrate foundational software development, device management, and cloud services to address the growing demands of edge AI and diverse industries. Together, these solutions enable streamlined AIoT development, robust edge orchestration, and enhanced AI-powered operations.

Key Solution Highlights

Software Built-in Services
Pre-integrated software and drivers enable faster deployment and seamless hardware compatibility

Modular AI Solutions
Flexible and ready-to-use AI software modules designed to accelerate application development in key verticals

Edge Security Framework
Built-in security frameworks safeguard devices and data through trusted boot, encryption, and advanced threat protection mechanisms

Edge AI Software Portfolio & Services

Edge Operation	Edge Security	Edge AI Development	Edge Management	Edge Deployment Infrastructure	Edge Integration & Service
Operating Systems	**Security Conformity Services**	**Generative & Inference AI SDK**	**Industrial Edge Device Remote Management**	**Cloud-to-Edge Platform**	**System Integration Ecosystem Partners**
Canonical Ubuntu Pro	Advantech IEC 62443-4-2 PartCertified	Edge AI SDK	DeviceOn	Microsoft Azure	nagarro
Windows		Edge AI Modeling Optimization Platform		Azure IoT Cloud Platform Services	
Windows IoT Enterprise LTSC/ Windows Server IoT					
Drivers & API Utility Tools	**Security & Protection Software**	EDGE IMPULSE	**Retail, Logistics, Healthcare Mobility Management**	**Edge Virtualization & Container**	
Power Suite	Trellix Acronis	**Large Scale AI Framework**	SOTI	Canonical	
SUSI API	SEC eDGE	NVIDIA NVIDIA Enterprise		MicroCloud	

Products

Brochure

Advantech delivers edge-to-end software solutions empowering industries to build secure, scalable, and AI-driven systems. Partnering with global leaders like Microsoft, Canonical, NVIDIA, and Qualcomm, we integrate reliable edge operation, AI development, and cloud deployment tools. As an edge AI enabler, Advantech accelerates digital transformation and drives the future of intelligent IoT.

Edge Operation

Canonical Ubuntu Pro

Advanced Service for 10 Years
- 10-year of security maintenance support
- Kernel Livepatch
- FIPS, Common Criteria, and CIS compliance

Windows IoT

Long-term OS for Fixed IoT Devices
- 10-year support for long-term stability
- Controlled updates with no forced upgrades
- Embedded features with strong security

Windows Server IoT

Enterprise-grade Server OS for IoT
- Full Windows Server for embedded systems
- Long-term stability with fixed lifecycle
- Supports robust security and management

Power Suite

Operating System Enhancement Utility

Multi-OS value-added tools from Advantech for easy deployment

Edge Security

Certified-Ready Security Platform
- Cut compliance costs by 50%
- Recognized by authoritative notified body
- Aim at EU CRA requirement

Security & Regulatory Platform (ONEKEY)
- Automated firmware and security analysis
- SBOM with vulnerability management
- EU CRA compliance accelerator tool

Trellix

Reliable App Control for Industry
- Blocks unknown apps with a secure list
- Monitor file integrity and track changes
- Zero-day protection without daily updates

Acronis

Reliable Backup with Quick Recovery
- Fast image-based backup for any device
- Instant recovery to cut downtime costs
- Active ransomware defense to protect data

SEC eDGE

Premium TPM Security for Devices
- Crypto-agile trusted security in the TEE
- In-field provisioning with lower BOM cost
- Secure boot, updates, and AI guard

Edge AI Development

Edge AI SDK

Rapid AI SDK Development Toolkit
- Cross-platform inference & benchmarks
- Remote power & OOB control
- Docker container management

EDGE IMPULSE

Edge AI Model Building Platform
- No-code tools for fast edge AI models
- Optimized workflows for TinyML devices
- Efficient real-time on-device inference

NVIDIA

Enterprise AI Software Platform
- Enterprise support and certified HW
- Integrated tools to streamline MLOps
- Unified training and inference stack

Edge Management

DeviceOn

AIoT Device Management Platform
- HW/SW monitoring, OTA updates
- Remote power & OOB control
- Docker container management

SOTI

Enterprise Mobility Management
- Device remote App & content management
- Single sign-on, location & shared device
- SOTI XS analytics & predictive monitoring

Edge Deployment Infrastructure

Microsoft Azure

Connect, Monitor, Analyze IoT
- Safe device links with two-way data
- Scalable edge processing for IoT
- Link Azure services with twins

Edge Software

Industrial Wireless Solutions

Industrial Display Solutions

Edge AI Acceleration Modules

SSD & Memory Solutions

Vision AI Cameras

Industrial Wireless Solutions
Built for AIoT, Designed for Harsh Environments

Advantech Industrial Wireless (AIW) delivers Wi-Fi 5/6/6E/7, 4G LTE, 5G NR, Bluetooth, GNSS, and antennas in industrial form factors to "wireless-enable" embedded and edge devices. Together with AIW design-in and antenna tuning services, OEM/ODM customers can pass global certifications faster and launch connected products for factory, medical, transport, and smart city scenarios.

Key Solution Highlights

Next-Gen Wireless Technologies
Wi-Fi 7, 5G RedCap, LTE Cat.1bis for emerging AIoT

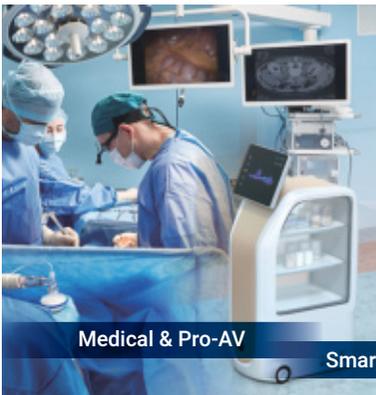### Industrial-Grade & Long Lifecycle
-40~85°C, 5+ year longevity, global radio/EMC certification readiness

Professional Design-In Services
Antenna tuning, RF testing, firmware/driver porting, fast certification support

Focused Market Applications

Medical & Pro-AV

Smart Infrastructure

Robotic & AMR

Industrial Drone & Ruggedized

Products

Brochure

Advantech Industrial Wireless (AIW) delivers Wi-Fi 7, 5G/RedCap, LTE, Bluetooth, GNSS, and matching industrial antennas to connect embedded and edge devices. With wide-temperature, long-lifecycle, and global certification−ready modules plus antenna/RF design-in services, AIW helps customers bring reliable, wireless-enabled AIoT equipment to market faster in factories, vehicles, healthcare, and smart city projects.

Wi-Fi Series

AIW-173 Series

Flagship Wi-Fi 7 Industrial-grade solution
- Qualcomm WCN7851
- M.2 2230 E key/ LGA 1620/MiniPCIe
- Windows 11 and Linux support
- Dual band simultaneuos support
- -40~85°C

AIW-170BQ

Premium-level Wi-Fi 6E solution
- Qualcomm WCN6856
- M.2 2230 E Key
- Windows 11 and Linux support
- Based on NFA765 reference desgin
- -40~85°C

AIW-169BR

Entry-level Wi-Fi 6E solution
- Realtek RTL8852CE
- M.2 2230 A/E Key
- Windows 11, Linux and android support
- 6GHz support and compatbile with X86 and Arm
- -10~70°C

Wi-Fi Series

EWM-W179M201E

Entry-level Wi-Fi 6 solution
- Realtek RTL8852BE
- M.2 2230 A/E Key
- Windows 11, Linux and android support
- Compatible with X86 and Arm platforms
- 0~70°C

GNSS Series

AIW-212

Standalone Positiong GNSS solution
- ublox NEO-M9N
- Half size mini-PCIe
- Support L1 band
- Windows11 and Linux
- -40~85°C

AIW-213

Standalone Positiong GNSS solution with dead reckoning
- ublox NEO-M9V
- Half size mini-PCIe
- Support L1 band
- Support multi-mode dead reckoning
- Windows11 and Linux
- -40~85°C

Cellular Series

AIW-356

5G NR FR1 solution
- Qualcomm SDX62
- M.2 3052 B Key
- Windows 11, Linux Ubuntu 24.04
- US and Japan Carrier certified
- -40~85°C

EWM-341

LTE Cat.6 solution
- Qualcomm SDX12
- M.2 3042 B Key
- Windows 11, Linux Ubuntu 24.04
- US and Japan Carrier certified
- -40~85°C

AIW-344

LTE Cat.4 solution
- Qualcomm MDM9207
- Full-size MiniPCIe
- Windows 10, Linux Ubuntu 20.04
- US and Japan Carrier certified
- -40~85°C

Antennas Series

AIW-512

Entry-level Tri-band Wi-Fi antenna
- 2.4GHz, 5GHz and 6GHz support
- Dipole type
- 0-70°C
- Compatible with AIW-100 series

AIW-520

Industrial-grade GNSS active antenna
- Active antenna with L1 band support
- IP67 compatible
- -40~85°C
- Compatible with AIW-200 series

AIW-534

Industral-grade Cellular atennas
- LTE band support
- Dipole type
- -40~85°C
- Compatible with EWM-341

Edge Software

Industrial Wireless Solutions

Industrial Display Solutions

Edge AI Acceleration Modules

SSD & Memory Solutions

Vision AI Cameras

Industrial Display Solutions
Sector-Focused Displays, From Design to Deployment

Advantech's industrial display solutions leverage advanced in-house expertise to deliver exceptional quality and flexibility. Spanning the full spectrum from market-ready products to custom design-in services, we provide end-to-end solutions tailored to diverse vertical applications. Our comprehensive product lineup includes Industrial Display Kits, Open Frame and Panel Mount Monitors, Bezelless Series, Curved Monitors, and Digital Signage Displays—all engineered to perform reliably in harsh and demanding environments.

AMT   AUO   BOE   HIGGSTEC TOUCH SOLUTION

INNOLUX   MILDEX

Key Solution Highlights

Optical Bonding

Optically bonded LCDs for sunlight readability - eliminating air gaps, reducing glare, boosting visibility by 400%, and offering anti-moisture, anti-dust, and vandalism resistance

Advanced Display Enhancements

Rugged IP65/67 protection with high-brightness, UV-resistant, anti-reflective display, featuring vandal-resistant cover glass and AG/AR/AF surface coatings

High Brightness for Sunlight Readability

In-house enhanced backlight with thermally optimized low-power design, improved NTSC color and uniformity, auto-dimming via light sensor, plus optional ultra-low dimming down to 2 nits

Focused Market Applications

Products

Download Resources

Advantech delivers tailored solutions for fast-growing markets — from AMR and robotics to medical, outdoor, digital signage, and gaming — powered by the latest display technologies.

Industrial ProFlat Bezeless Monitors

IDP31-215WP

21.5" Industrial IP67-rated Touch Monitor

- 21.5" FHD 1920x1080 resolution
- P-cap touch, multi-touch
- HDMI, USB type A, DC 12V
- 0 ~ 60°C, 529.1 x 325.8 x 48.3mm, 5.7 kg

IDP31-101WP

10.1" Industrial IP67-rated Touch Monitor

- 10.1" WXGA 1280x800 resolution
- P-cap touch, multi-touch
- HDMI, USB type A, DC 12V
- -20 ~ 65°C, 256.9 x 180.6 x 47.3mm, 2.1kg

IDP31-070WP

7" Industrial IP67-rated Touch Monitor

- 7" WVGA 800x480 resolution
- P-cap touch, multi-touch
- HDMI, USB type A, DC 12V
- -20 ~ 65°C, 203 x 142 x 47.1 mm, 1.46 kg

IDP31-238WP

23.8" Industrial IP67-rated Touch Monitor

- 23.8" FHD 1920x1080 resolution
- P-cap touch, multi-touch
- HDMI, USB type A, DC 12V
- 0 ~ 45°C, 580.6 x 350.1 x 50.45mm

Industrial Touch Monitors

IDS-3115

15" XGA Open Frame Touch Monitor

- 15" XGA 1024x768 resolution
- P-cap touch, multi-touch
- VGA, DVI, USB type A, DC 12V
- -20 ~ 60°C, 12 VDC, 344 x 288 x 36.1mm

USB-C Touch Monitors

IDP31-156WC

15.6" Industrial USB-C Touch Monitor

- 15.6" FHD 1920x1080 resolution
- P-cap touch, multi-touch
- USB Type-C, DP, HDMI
- 0 ~ 60°C, 12 VDC, 399.88 x 249.5 x 54 mm

Industrial Display Kits

IDK-1107WP

7" SVGA Touch Display Kit

- 7" 1024x600 resolution
- LVDS interface
- P-cap touch for multi-touch
- AD board for HDMI interface as option

IDK-1110WP

10.1" WXGA Touch Display Kit

- 10.1" 1280x800 resolution
- LVDS interface
- P-cap touch for multi-touch
- AD board for HDMI interface as option

IDK-1113WP

13.3" FHD Touch Display Kit

- 13.3" 1920x1080 resolution
- eDP interface
- P-cap touch with optical bond lamination
- AD board for HDMI interface

Video Wall VWK-9000 Series

VWK-9550

55" Industrial UHD-4K Video-Wall Signage Display

- 4K UHD IPS panel with brilliant color gamut and wide viewing angle
- Video-wall set-up (2 x 2) with large size 110" display advantage
- Multi-signal input and convenient remote Control (HDMI 2.0 x 2, RJ45 x1, RS232 x 1, USB type A x 1)
- Industrial-grade 24/7 operation guarantee
- 0~ 40°C, 110 ~ 240 VAC, 1234.2 x 706.5 x 58.9mm, 12.0 kg (26.46 lb)
- Best Compatible with: DS-086

Edge Software

Industrial Wireless Solutions

Industrial Display Solutions

Edge AI Acceleration Modules

SSD & Memory Solutions

Vision AI Cameras

Edge AI Acceleration Modules
Fast-Track to Edge AI with Efficient Deployment

NPU- and GPU-powered AI acceleration modules offer the fastest and simplest way to integrate AI into current edge computing platforms. These technologies provide advantages in throughput, latency, and efficiency, making them ideal for various AI applications. Advantech partners with leading AI chip providers to deliver cost- and power-efficient acceleration modules in M.2, MXM, and PCIe form factors, ensuring seamless upgrades from edge computing to edge AI.

HAILO   AXELERA   Qualcomm   intel.   DEEPX

Key Solution Highlights

Flexibility
Module designs in standard form factors enable quick integration, including M.2, MXM, and PCIe

Diversity
AI computing power ranges from entry-level to high-end, catering to diverse AI applications

Advantech Edge AI SDK
Comprehensive toolset supports rapid edge AI setup and streamlined development workflows

Focused Market Applications

From entry-level to high-performance, Advantech's EAI Series accelerates the Edge AI journey, with lower costs, faster deployment, and full software support for applications including security screening, traffic monitoring, AMR & Robotics, and defect inspection.

Security Screening	AMR & Robotics	Defect Inspection	Traffic Monitoring
EAI-1200	EAI-2100	EAI-3300	EAI-3101

Products   eBook

EAI 1000 (M.2)

EAI-1200

Hailo-8™ M.2 AI Module B+M-Key

- Hailo-8™
- M.2 Key B+M 2242
- PCIe Gen3.0x4
- 2242 to 2280 extension bracket
- -40~85°C, 3.3 VDC, 22 x 42 x 2.63mm, 0.025kg

EAI-1200

Hailo-8™ M.2 AI Module A+E-Key

- Hailo-8™
- M.2 Key A+E 2230
- PCIe Gen3.0x2
- -40~85°C, 3.3 VDC, 22 x 30 x 2.63mm, 0.024kg

EAI-1961

DEEPX M.2 AI Module M-Key

- DEEPX DX-M1
- 2GB LPDDR5*2 (Total 4GB)
- M.2 Key M 2280
- PCIe Gen3.0x4
- -40~85°C,3.3 VDC, 22 x 80 x 3.8mm, 0.0084kg

EAI-2000 (MXM)

EAI-2100

Intel® Arc™ A370M GPU MXM Type-A Card

- GPU: A370M, 4GB
- 4x DP1.4a
- PCIe Gen4.0x8
- Supports optional fansink
- 0-60°C, 3.3 VDC, 82 x 70mm, 0.05kg

EAI-2300

Hailo-8™ AI MXM Type-A Card

- Dual Hailo-8™
- MXM Type A
- PCIe Gen3.0x8
- Supports optional fansink
- -40-70°C, 7~20 VDC, 82 x 70mm, 0.03kg

EAI-2841 (Planning)

Upcoming

Axelera MXM Type-A Card

- Metis AIPUx1
- 8GB LPDDR4X (TBD)
- Max. 20-35W (TBD)
- 0-60°C

EAI-3000 (PCIe)

EAI-3100

Intel® Arc™ A370M GPU PCIe Card

- GPU: A370M, 4GB
- 2x DP1.4a + 2x HDMI2.0b
- PCIe Gen4.0x8
- 0-60°C,12 VDC, 168 x 110 x 34.8mm (DualSlot), 0.73kg

EAI-3101

Intel® Arc™ A380E GPU PCIe Card

- GPU: A380E, 6GB
- 4x DP1.4a
- PCIe Gen4.0x8
- 0-60°C,12 VDC, 152 x 110 x 34.8mm (DualSlot), 0.77kg

EAI-3300

Hailo-8™ AI Acceleration PCIe Card

- Dual Hailo-8™
- Form Factor: PCIe x16
- PCIe Gen3.0x8
- -40~70°C,12 VDC, 145 x 68.9 x 18.42mm (Single slot), 0.175kg

EAI-3931

Intel® Arc™ Pro B60 PCIe Card

- GPU: B60, 24GB
- 4x DP2.1
- PCIe Gen5.0x8
- 0-45°C,12 VDC, 289 x112 x 42mm (DualSlot), 1100g

EAI-3800

Qualcomm Cloud AI100 Ultra PCIe Card

- NPU, 870 TOPS
- FH3/4L PCIe x16, single slot
- 128GB LPDDR4x
- Max. 150W

Edge Software

Industrial Wireless Solutions

Industrial Display Solutions

Edge AI Acceleration Modules

SSD & Memory Solutions

Vision AI Cameras

Industrial SSD & Memory Solutions

Pre-Qualified Reliability, First-to-Market Access

Advantech proudly offers its own lines of industrial-grade SSD and DRAM solutions, namely SQFlash and SQRAM, engineered with a strong focus on security and reliability, and fully compatible with all Advantech platforms. Complementing these offerings are extensive customization services and intelligent software tools that enhance usability and performance. Whether for servers, edge devices, or outdoor deployments, SQFlash and SQRAM deliver dependable performance tailored to diverse application needs.

PHISON **SK hynix** **Micron**

Key Solution Highlights

Ruggedized Design
Built with multi-stage power failure protection and wide temperature operation. Conformal coating and underfill protect against corrosion, humidity, shock, and vibration

Self-Management
Includes DeviceOn/SQ Manager 2.0 for health monitoring, lifespan prediction, remote management, and online predictive maintenance

Flexible Customization
Offers 3-year extended longevity and SPD tuning, with full hardware, software, and firmware support to meet diverse application requirements

Focused Market Applications

Products

Brochure

Advantech's SQ solutions provide a comprehensive range of memory products. These solutions support a wide variety of embedded, automation, transportation, and networking applications, as well as data-intensive processing, empowering Edge AI transformation.

SQF PCIe Solution

SQF-C8M 740

M.2 2280 PCIe/NVMe Gen5 x4 SSD
- PCIe Gen5 x4, up to 4TB
- M.2 2280 M key, DRAMLess
- Performance R/W: 10,000/8,000 MB/s
- Support SQ Manager 2.0
- -25~85°C/-40~85°C, 80.0 x 22.0 x 3.8mm, 30g

SQF-C8M 930L

M.2 2280 PCIe/NVMe Gen4 x4 SSD
- PCIe Gen4 x4, up to 1.9TB
- M.2 2280 M key, w/ DRAM
- Performance R/W: 5,500/2,000 MB/s
- Support SQ Manager 2.0
- 0~70°C/-40~85°C, 80.0 x 22.0 x 3.8mm, 35g

SQF-C8M 730

M.2 2280 PCIe/NVMe Gen4 x4 SSD
- PCIe Gen4 x4, up to 4TB
- M.2 2280 M key, DRAMLess
- Performance R/W: 4,900/3,700 MB/s
- Support SQ Manager 2.0
- 0~70°C/-20~85°C/-40~85°C, 80.0 x 22.0 x 3.8mm, 30g

SQF-C4M 720

M.2 2242 PCIe/NVMe Gen3 x4 SSD
- PCIe Gen3 x4, up to 2TB
- M.2 2242 M key, DRAMLess
- Performance R/W: 2,500/1,950 MB/s
- Support SQ Manager 2.0
- 0~70°C/-20~85°C/-40~85°C, 42.0 x 22.0 x 3.8mm, 25g

SQF SATA Solution

SQF-S25 650

2.5" SATA SSD
- SATA 6.0Gbps, up to 2TB
- 2.5" SATA SSD, DRAMLess
- Performance R/W: 558/522 MB/s
- Support SQ Manager 2.0
- 0~70°C/-20~85°C/-40~85°C, 100.0 x 69.9 x 7.0mm, 90g

SQF-S25 840

2.5" SATA SSD
- SATA 6.0Gbps, up to 15.3TB
- 2.5" SATA SSD, w/ DRAM
- Performance R/W: 559/549 MB/s
- Support SQ Manager 2.0
- 0~70°C/-20~85°C/-40~85°C, 100.0 x 69.9 x 7.0mm, 90g

SQF-SMS 650

mSATA SSD
- SATA 6.0Gbps, up to 2TB
- MiniPCIe mSATA, DRAMLess
- Performance R/W: 558/522 MB/s
- Support SQ Manager 2.0
- 0~70°C/-20~85°C/-40~85°C, 50.8 x 30.0 x 4.2mm, 45g

SQF-S8B 650

M.2 2280 SATA SSD
- SATA 6.0Gbps, up to 2TB
- M.2 2280 B+M key, DRAMLess
- Performance R/W: 558/522 MB/s
- Support SQ Manager 2.0
- 0~70°C/-20~85°C/-40~85°C, 80.0 x 22.0 x 3.8mm, 30g

SQR DDR4 Solution

SQR-SD4N

SODIMM 3200
- Up to 32GB
- Downward Compatible 2666
- On-Board EEPROM
- Original Hynix, Micron, Nanya chip
- 0~85°C, 69.60 x 30 x3.7mm, 9g

SQR DDR5 Solution

SQR-SD5N

SODIMM 5600
- Up to 48GB
- Downward Compatible 4800
- SPD EEPROM Hub and Integrated Thermal Sensor
- Original Hynix IC chip
- 0~95°C, 69.60 x 30 x3.7mm, 9g

SQR-SD5I

SODIMM 5600
- Up to 32GB
- Support wide temp (-40-95)
- SPD EEPROM Hub and Integrated Thermal Sensor
- Original Hynix IC chip
- -40~95°C, 69.60 x 30 x3.7 mm, 9g

SQR-SD5N

SODIMM 5600 ECC
- Up to 48GB
- Downward compatible with 4800
- Support ECC& EEPROM Hub & Integrated Thermal Sensor
- Original Hynix IC Chip
- 0~95c, 69.60 x 30 x 3.7mm, 9g

Edge Software

Industrial Wireless Solutions

Industrial Display Solutions

Edge AI Acceleration Modules

SSD & Memory Solutions

Vision AI Cameras

Vision AI Cameras

Intelligent Vision for a Smarter World

The applications of Vision AI Cameras are broad and rapidly expanding, requiring diverse imaging technologies and intelligent processing capabilities. Vision AI cameras that combine advanced optics, AI algorithms, and edge computing enable real-time image recognition, analysis, and decision-making across various industries, including manufacturing, logistics, healthcare, and smart cities.

APPRO Photoelectron   **ORBBEC**

Key Solution Highlights

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

Profile Pre-load
Accumulate and save parameter profile, and quickly apply it for a new field fine-tuning

Software Integration
Unified software interface for initial evaluation testing & image application development

System Validation
Reduce evaluation time and accelerate iterative product development

Solution Highlights

2D Device

3D Device

2D / 3D + AI System

Learn More

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

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

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

CAM-5000 Series

CAM-5530-U

CAM5530 USB3 Stereo Vision Camera

- USB3
- Depth: 1M(1280x800) / 30fps
  RGB: 1M(1280x800) / 30fps
- Depth: 94°(H) x 62°(V) ± 3° @ 2m with Global shutter
  RGB: 94°(H) x 68°(V) ± 3° with Global shutter
- 124 x 29 x 27.7mm

CAM-5530-G

CAM5530 GMSL2 Stereo Vision Camera

- GMSL2
- Depth: 1M(1280x800) / 30fps
  RGB: 1M(1280x800) / 60fps
- Depth: 90°(H) x 65°(V) ± 3° @ 2m with Global shutter
  RGB: 94°(H) x 68°(V) ± 3° with Global shutter
- 124 x 29 x 36mm

CAM-5330-U

CAM5330 USB3 Stereo Vision Camera

- USB3
- Depth: 1M(1280x800) / 30fps
  RGB: 2M(1920x1080) / 30fps
- Depth: 90°(H) x 65°(V) ± 3° @ 2m with Global shutter
  RGB: 86°(H) x 55°(V) ± 3° with Rolling shutter
- 90 x 25 x 30.7mm

CAM-2000 Series

CAM-2210-U

CAM-2210 USB3 Camera

- SONY IMX335 with ISPi5
- USB3
- 5MP(2560x1920) / 30fps
- M12 / F1.6 / 130.7°(D) x 100°(H) x 73.4°(V), Rolling shutter
- 51.2 x 39.5 x 29mm

CAM-2210-G

CAM-2210 GMSL2 Camera

- SONY IMX335 with ISPi(YUV)
- GMSL2
- 5M(2560x1920) / 30fps
- M12 / F1.6 / 130.7°(D) x 100°(H) x 73.4°(V), Rolling shutter
- 29 x 39.5 x 54.3mm

CAM-2220-G

CAM-2220 GMSL2 Camera

- ONSEMI AR0234 + ISPi(YUV)
- GMSL2
- 2.3M(1920x1200) / 60fps
- M12 / F1.8 / 113.4°(D) x 95.8°(H) x 59.6°(V), Global shutter
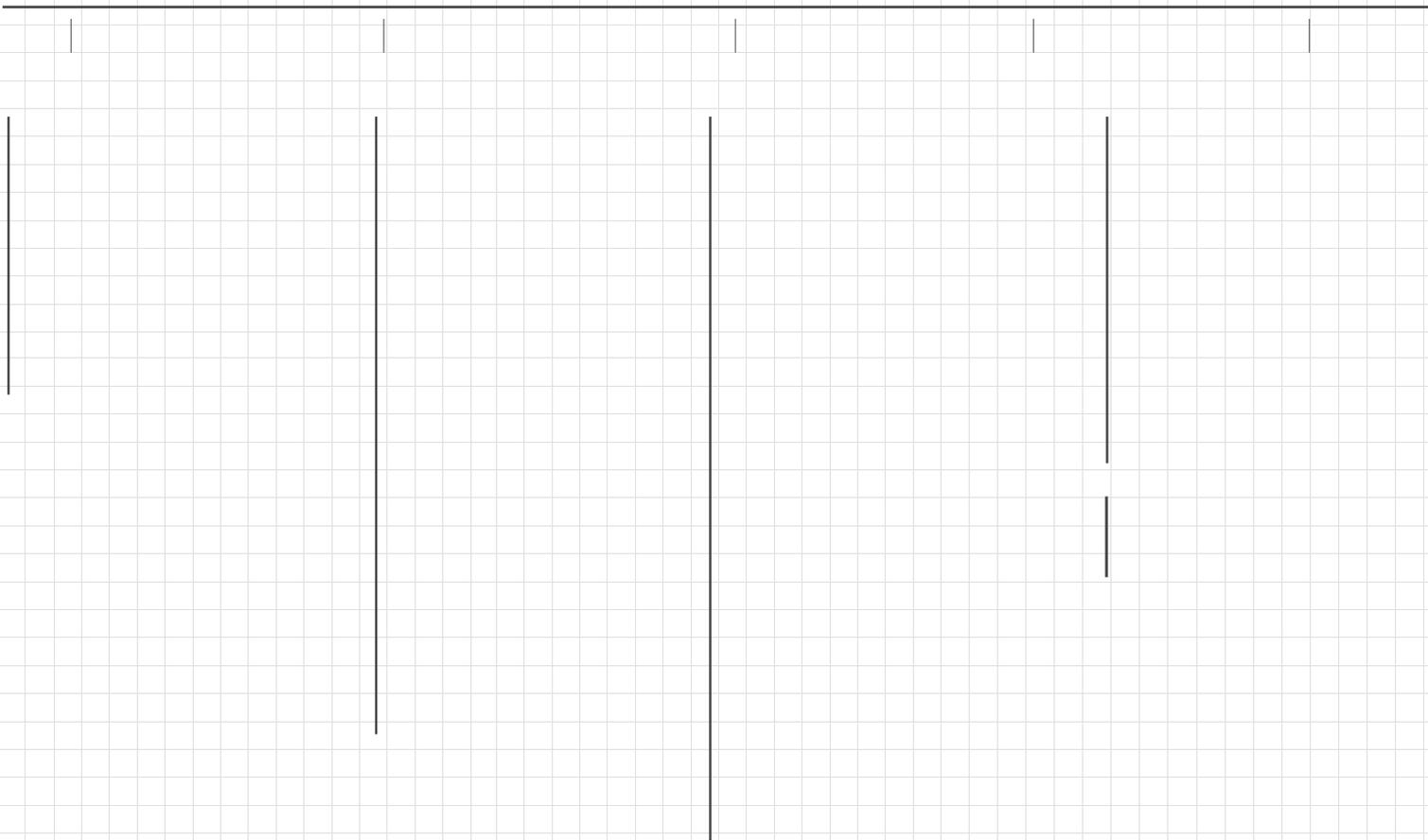- 29 x 39.5 x 55.7mm

CAM-2320-G

CAM-2320 GMSL2 Camera

- ONSEMI AR0822+ ISPi(YUV)
- GMSL2
- 4K(3840x2160) / 30fps(4lane)
- M12 / F1.8 / 130°(D) x 112°(H) x 62°(V), Rolling shutter
- 29 x 39.5 x 56.4mm

CAM-2110-G

CAM-2110 GMSL2 Camera

- SONY IMX290 + ISPi(YUV)
- GMSL2
- 2M(1920x1080) / 60fps
- M12 / F1.8 / 106.6°(D) x 92.6°(H) x 51.8°(V), Rolling shutter
- 39.5 x 29 x 52.9mm

Edge Software

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Vision AI Cameras

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Enabling an Intelligent Planet

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