





ADVANTECH INTEL SOLUTIONS EBOOK

Your Guide to Advantech's EloT Computing Platforms based on the Latest Intel CPUs Designed Specifically for Rugged Environments

TABLE OF CONTENTS

Advantech In Perspective Advantech at a Glance.....4 Vertical Market Driven6 Product Offerings8 Long Life & Revision Control9 Global Design & Manufacturing Services (DMS)......12 **Edge+ Embedded Solutions Edge+ Computing Systems**

Star Product - DS-085......24

Embedded PCs	25
Star Product - EPC-B5587 Medical PACS Workstation	26
Edge Intelligent Systems	27
Star Product - EI-52 Compact High Performance Edge Intelligence System	28
Use Cases	
Al-Enabled On-Site Production Line Monitoring	30
Empowing Autonomous Mobile Robots	31
Centralized Management Smart Energy Storage Systems	32
Delivers Excellent Graphics and Al Performance to Ultrasound Devices	33
ndoor Navigation System With Deep Learning Enhances Touring Experiences	34
Reliable In-Vehicle Systems Improve Road Safety	35
Al Facial Mask Detection and Body Temperature Screening Solutions	36
Edge+ Al Solutions	
RRK: Al Surveillance & Public Safety Solution	38
MRS: Equipment Vibration Monitoring Solution	39
Embedded Software Services (BIOS, DeviceOn)	40
Windows Embedded/IoT	41
Contact Information	42



Enabling an Intelligent Planet



Est. 1983

Founder and CEO: K.C Liu Headquarter: Taipei, Taiwan

INDUSTRY SERVED



Telecom, Industry 4.0, IoT, Gaming, Retail, iLogistics, Mil/Aero, Broadcasting, Agriculture, Healthcare (We work with 27 of the top 30 healthcare companies worldwide)

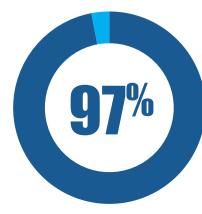


STANDARD PRODUCT

OFFERINGS

CUSTOM PRODUCT CAPABILITY

97% of what we build is "the brand behind the brand" for our partners

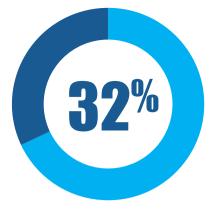


WORLDS LARGEST IPC COMPANY

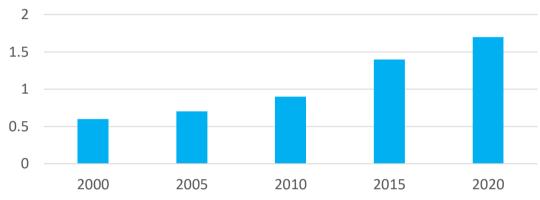
32% market share

Advantech

Other IPC Companies



\$2.11B 2021 REVENUE



KEY ECO-SYSTEM PARTNERS

Intel Titanium Partner/Microsoft Gold

Microsoft Partner

Microsoft









Gold Cloud Platform



QUALITY SYSTEMS IN PLACE

- ✓ OHSAS 18001
- ✓ ISO-17025
- ✓ IECQ QC 080000
- ✓ Sony GP

1MILLION+ sq. ft.

Two in-house manufacturing sites backing up each other





Linkou, Taiwan

Kunshan, China

MANUFACTURING PLANTS

- ✓ Vertically Integrated manufacturing (Self contained)
- ✓ Full Manufacturing redundancy (Risk Mitigation)
- ✓ Full BOM and lifecycle control (End-to-End control over quality)

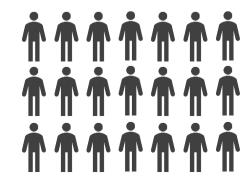


WORLDWIDE OFFICES



Design Centers	(
Manufacturing Centers	
CTOS Centers	13
Logistics Centers	4
On-Site Service	2
Repair Centers	14
Sales Offices	19

EMPLOYEES



WHY ADVANTECH Advantech is a leading provider of innovative products, services, and solutions. We offer comprehensive system integration, hardware, software, customer-centric design services, embedded systems, automation products, and global logistics support. We work closely with our partners to provide complete solutions for a wide range of applications in different vertical segments. As an Intel Titanium Partner, Advantech is well-aligned with Intel in many fronts - excellent product designs, target vertical segments, marketing, and sales engagement.

SECTOR BASED BUSINESS

Embedded-IoT

Embedded and Edge Computing

- Computer on Modules
- Single Board Computers
- Industrial Motherboards
- ARM-based Computing
- Fanless Embedded Computers
- Edge Intelligence Solutions
- Edge AI Solutions
- DeviceOn Software Solutions
- Industrial Display Solutions
- Industrial Flash & Memory Solutions
- Industrial Wireless Solutions
- Gaming Platform Solutions

Applied Computing DMS

- Medical Equipment Builder
- Panel Computing & Automation
- IoT Appliance Services
- ARM & Portable Computing
- ATJ-DMS(Japan) & AKTC DMS (China)
- Modular Board Design Services

Industrial-IoT

Industrial Automation

- Industrial I/O & Controllers
- Automation Computing & HMI
- Motion Controls & Machine Vision
- Remote IoT Devices (WISE)
- WebAccess+ Software
- iFactory (Industry 4.0) Solutions
- Energy & Environment Solutions

Intelligent Systems

- Industrial Computers
- Industrial Servers & Storage
- Transportation Solutions

iConnectivity

- Industrial Switches
- Industrial Wireless Devices
- Industrial Cellular Routers

Services

WISE-PaaS & WP.SENSE IoT

 Edge Intelligence PaaS & Solution Enabling Services

IAPS

 Industrial Allied Procurement Services

AGS

 Global & Regional Customization Services

Cloud-IoT

- Industrial Blade Platforms
- Enterprise Network Platforms
- Industrial Private Cloud
- Medical Video & Image Solutions
- Broadcasting & IP Video Solutions
- Data Center Video Solutions

Service-IoT

Intelligent Healthcare

- Intelligent Hospital & Medication Solutions
- Medical Edge Computing

Intelligent City Service

- Intelligent POS & Self-Service Solutions
- Digital Signage Solutions

Intelligent Logistics

- Driving Safety & Cold Chain Solution
- Warehouse & Fleet Management Solutions

AIM Industrial Mobile Computers

VERTICAL MARKET DRIVEN











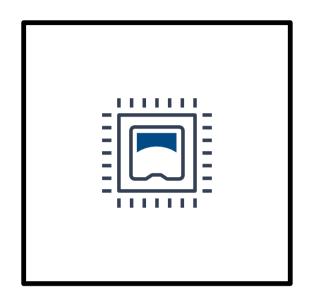


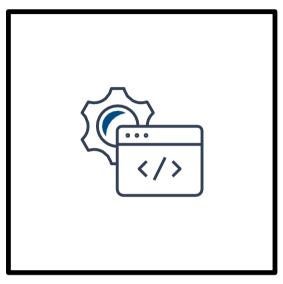


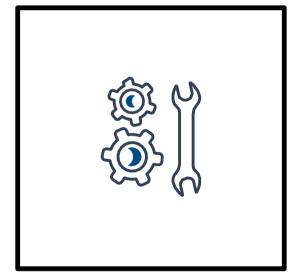




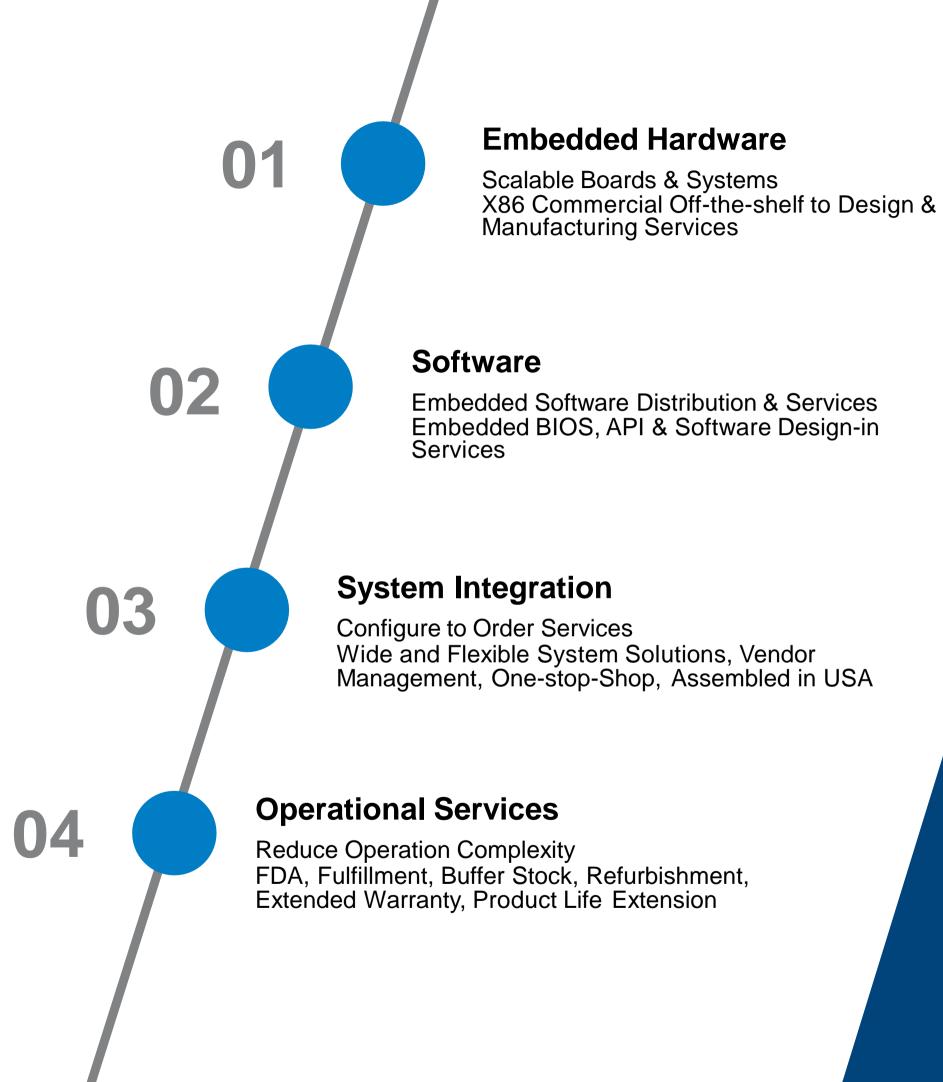
GROWTH ENGINES



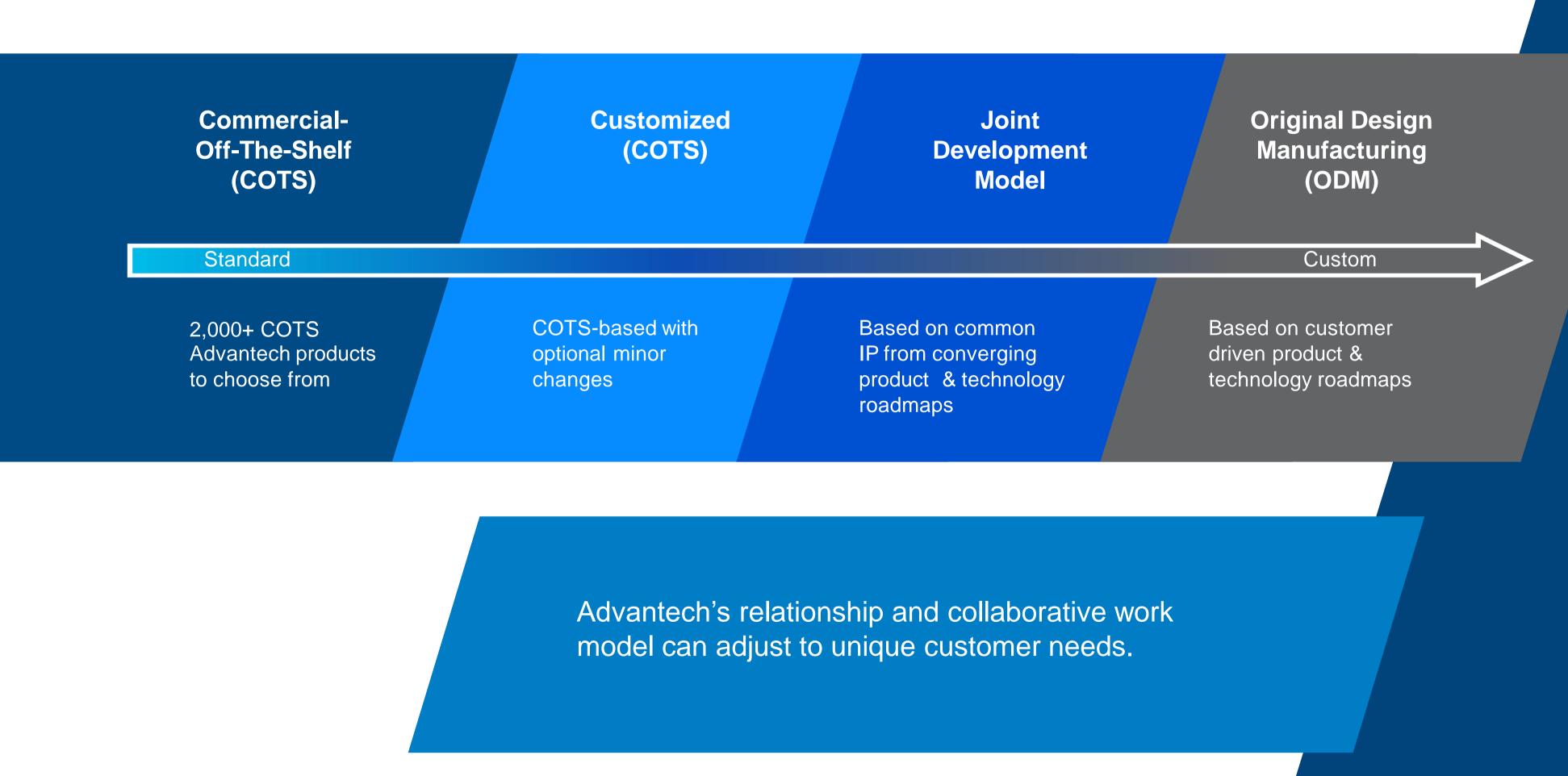




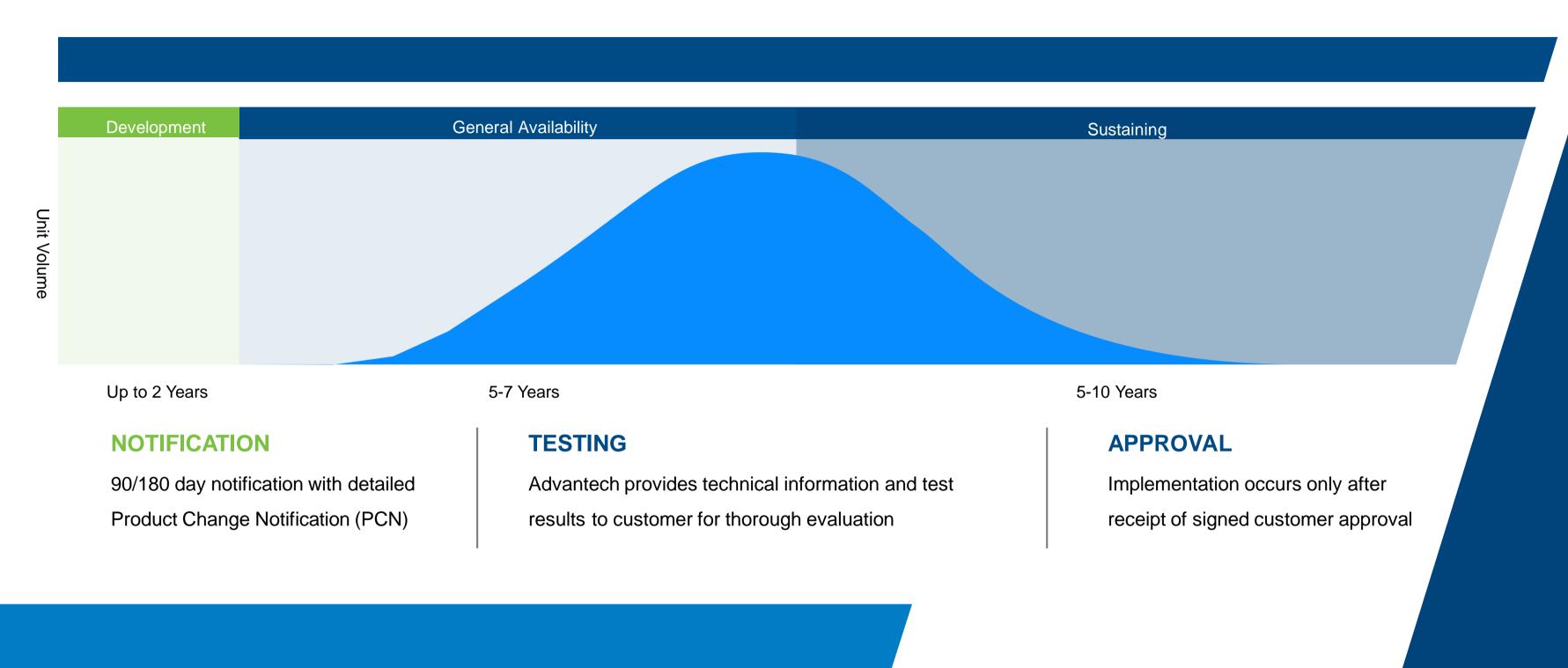




PRODUCT OFFERINGS



LONG LIFE & REVISION CONTROL



Advantech manages all stages of a product's lifecycle to ensure long term availability.

FULL VERIFICATION AND VALIDATION

IN-HOUSE CAPABILITIES

- HALT test
- High/low temp. operating test
- Temp. & humidity test
- Temp. cycle test
- Temp. & humidity storage test
- Power On/Off Test
- Cold start test

- Four corner test
- Power consumption test
- Voltage regulation test
- Power DIP test
- ESD test
- Surge test
- Random operating vibration test

- Sine vibration non-operating test
- Bump test
- Shock test
- Drop test
- Water ingress test
- Dust ingress test
- MTBF test
- Thermal profile test













Advantech utilizes a combination of in-house testing and independent 3rd party test labs for system stress testing, regulatory compliance and design validation. We operate an ISO 17025 accredited test laboratory in Taiwan and maintain various test equipment throughout our global engineering locations.

ADVANTECH GLOBAL CERTIFICATIONS EN 13485 (1)









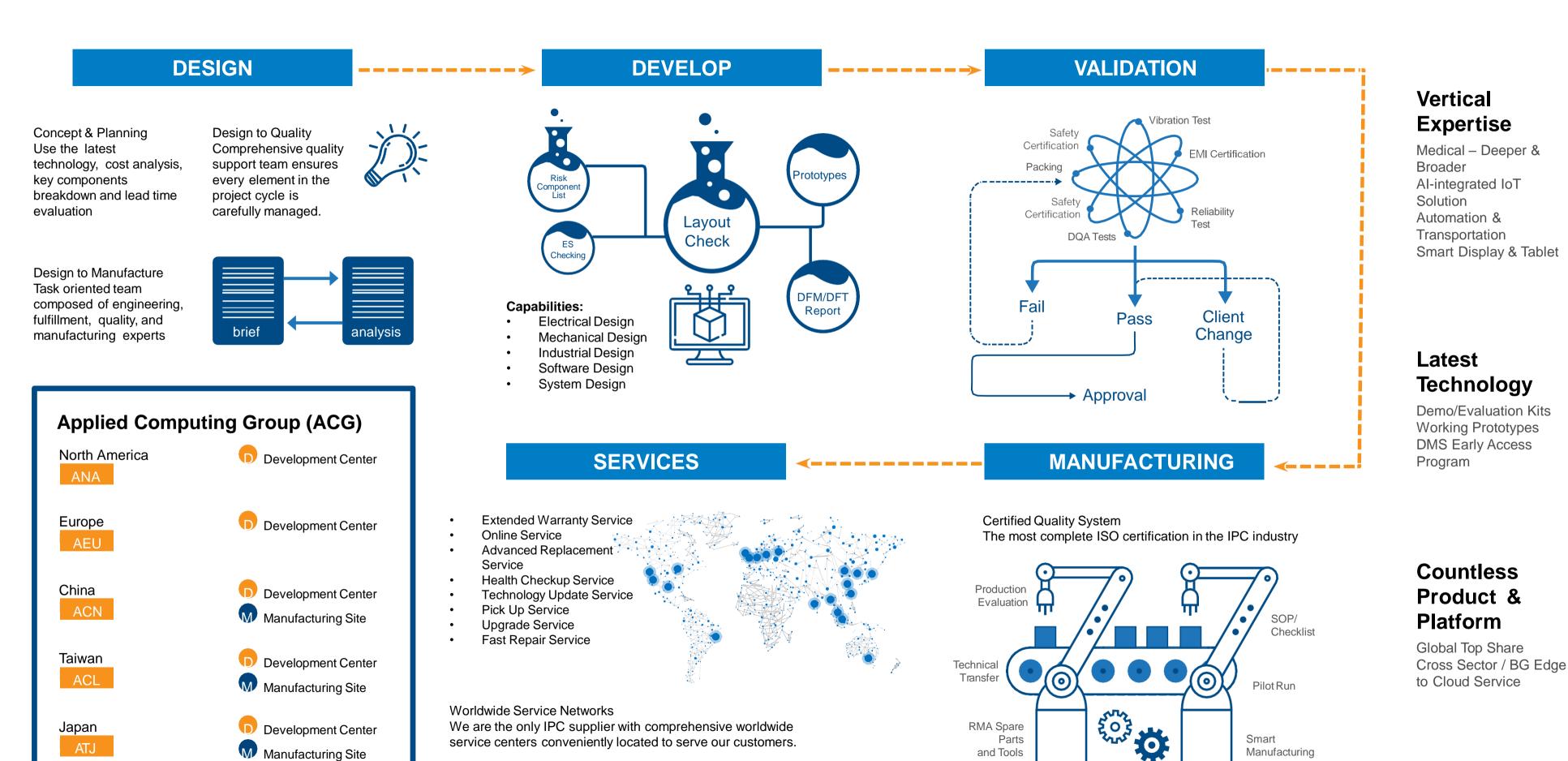


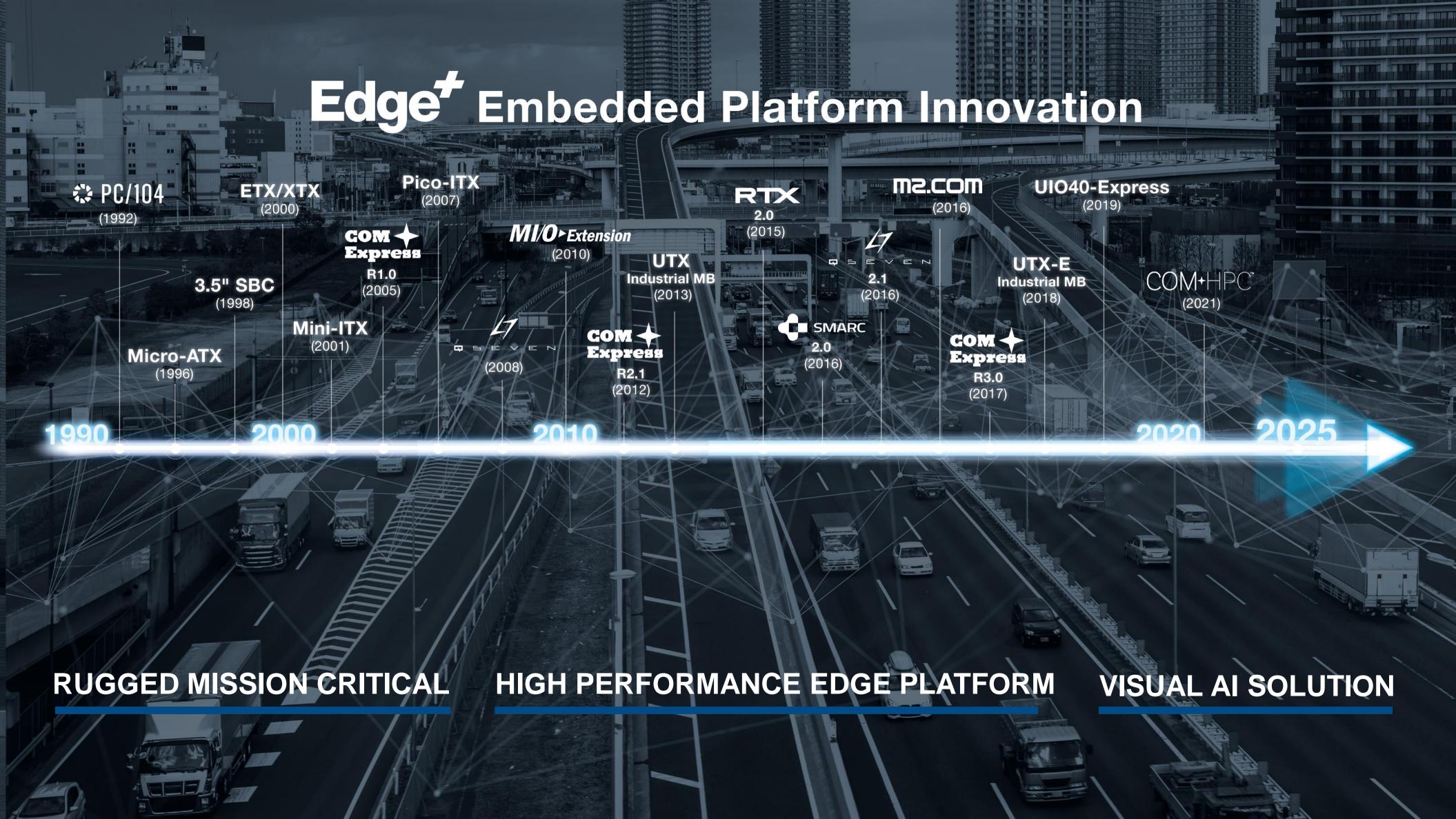


ISO item in the state of the st	(UL)	c Us	(((()		
9001		Intertek	С	US		

		HQ	ATMU Donghu	ATMU Linkou	ATMU CTOS	AKMC	ACSC	AASC	AESC	APSC	ABR
ISO9001	General Quality	•	•	•	•	•	•	•	•	•	•
ISO13485	Medical Quality	•	•	•	•	•	•	•	•	•	
TL9000	Telecom Quality	•	•	•	•	•	•				
ISO14001	Environment	•	•	•	•	•	•	•			
OHSAS180 01/ ISO 45001	Health & Safety	•	•	•	•	•	•	•			
ISO27001	Information Security		•	•	•	•		•			
ISO17025	Laboratory	•		•		•					
IECQ QC080000	Hazardous Substance					•					
SONY GP	Green Partner		•	•		•					
IPC QML	PCBA Manufactured Process			•							
AEO	Authorized Economic Operator					•					
C-TPAT	Custom-Trade Partnership Against Terrorism			•				•			
IECEx QAR	Explosive Atomsphere Application		•	•				•			_
ITAR Registration	International Traffic in Arms Regulations							•			
FDA Registration	Food and Drug Administration							•			
CDPH Registration	California Department of Public Health							•			

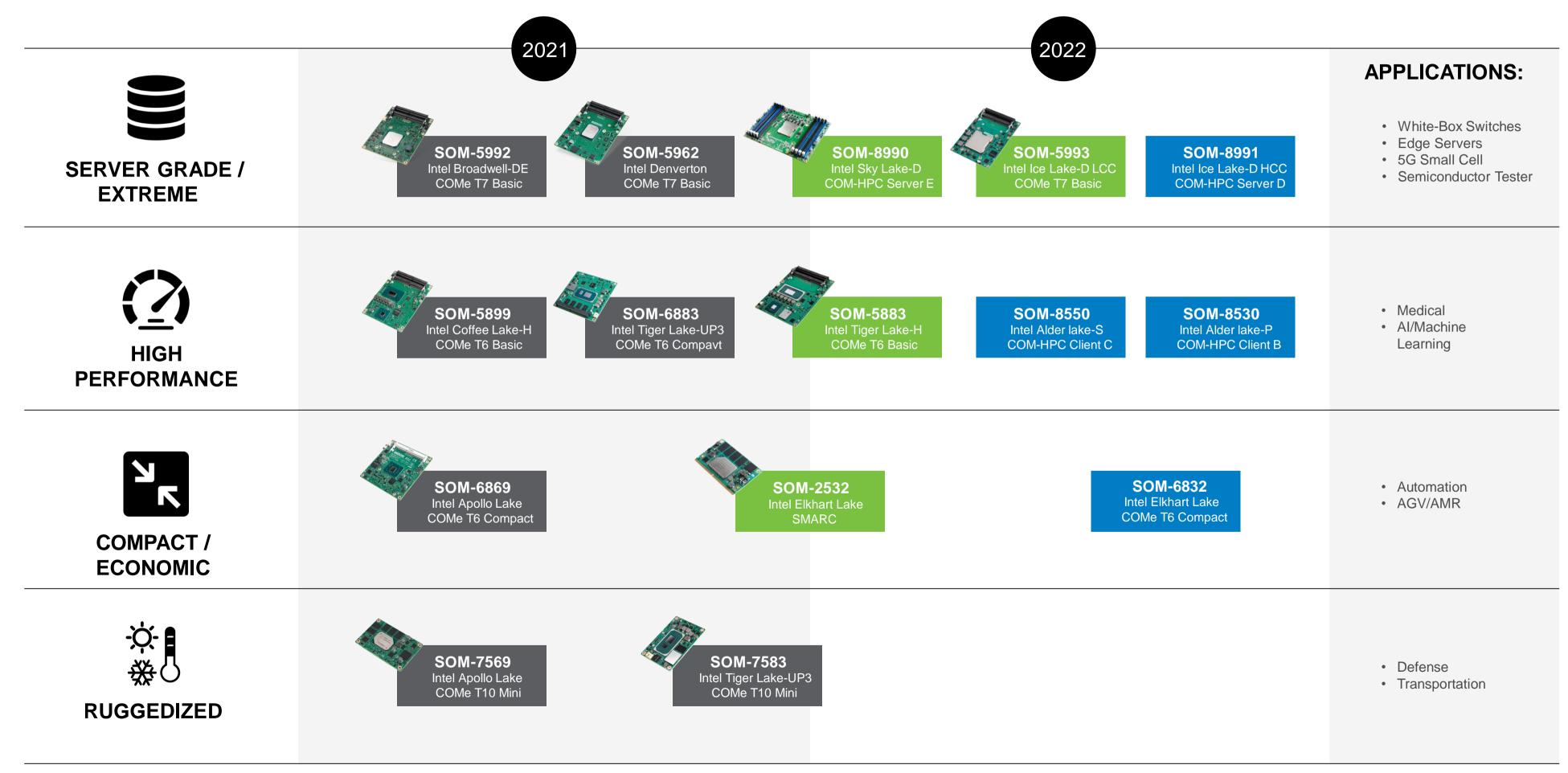
GLOBAL DESIGN & MANUFACTURING SERVICES (DMS)





COMPUTER ON MODULES ROADMAP





SOM-8990, SOM-5993

STAR PRODUCTS



Intel® Xeon® D-2183IT

16 cores, 32 threads, 22M Cache, up to 3.0 GHz



Intel® Xeon® ICX-D LCC

10 cores, 20 threads, 1.5M/core Cache



Intel® Xeon® ICX-D LCC

8 cores, 16 threads, 1.5M core Cache



Intel® Xeon® ICX-D LCC

4 cores, 8 threads, 1.5M/core Cache

PHASE IN

2021 / 2H

LONGEVITY

2025 / 2035

Server Grade Extreme Performance

Up to 16Core Multi-core processor
Max. 512GB DDR4 LRDIMM with COM-HPC;
Max. 128GB DDR4 SODIMM with COM Express
Modular & Standard & Powerful computing unit

Rich & Super Speed I/O Throughput

32pair PCle on SOM-5993, up to PCle Gen4 (16GT/s) 45 pair PCle on SOM-DB8900, better expansion 4 ports 10GBASE-KR interface with both Copper and Fiber media support

Reliable Design for Edge Computing

Multi-level security with TPM2.0 and BIOS secure boot Antivibration with Rugged SODIMM on SOM-5993 Wide temperature (Standard: 0~60oC, Extend: -40~85oC)



SOM-8990 COM-HPC Server Size E (200x160mm)

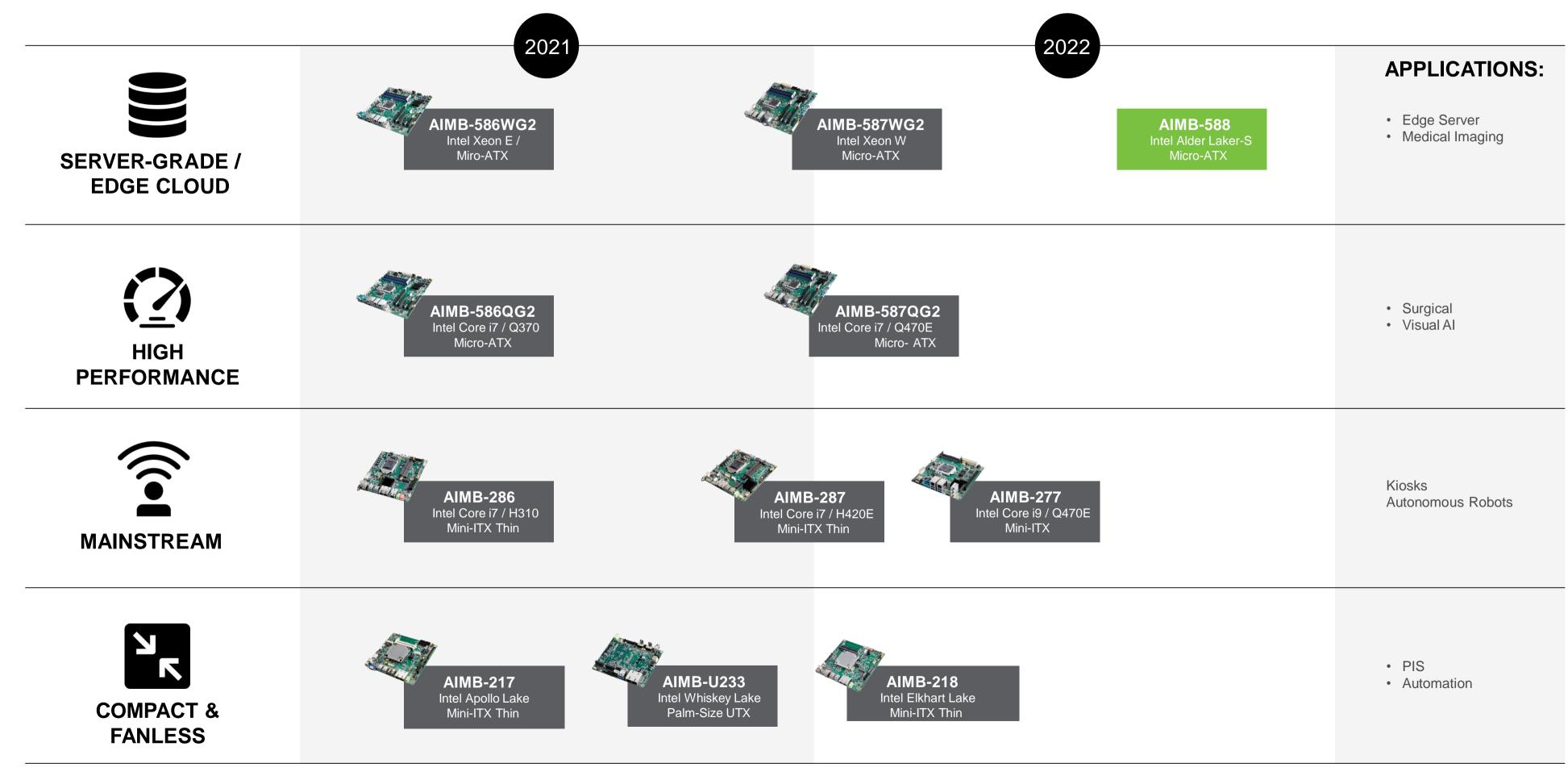


SOM-5993 COM Express Type7 Basic Module (125x95mm)



AIMB INDUSTRIAL MOTHERBOARD ROADMAP





AIMB-218, SOM-2532, MIO-5152

STAR PRODUCTS



Intel® Atom® x6413E Processor

4 cores, 4 threads, 1.5MB Cache, up to 3.00 GHz



Intel® Celeron® Processor N6211

2 cores, 2 threads, 1.5MB Cache, up to 3.00 GHz



Intel® Pentium® Processor J6426

4 cores, 4 threads, 1.5MB Cache, up to 3.00 GHz



Intel® Celeron® Processor J6413

4 cores, 4 threads, 1.5MB Cache, up to 3.00 GHz

PHASE IN

2021 / JULY

2035/Q4

LONGEVITY

Improved Performance

+40% CPU Peformance 2X graphics performance improvement DDR4-3200

Software Service

Yocto BSP support Advantech WISE-DeviceOn Remote management Tool

Rugged Multi-Functional & High Reliability Design

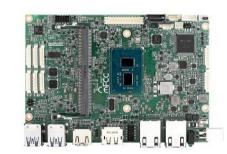
DC-in 12V operation 6x UART
-20~70°C / -40~85°C operating temperature available
Pass IEC61000-4-2 Lv4 8kV/15kV ESD Criteria A (MIO-5152)



Mini-ATX



SMARC

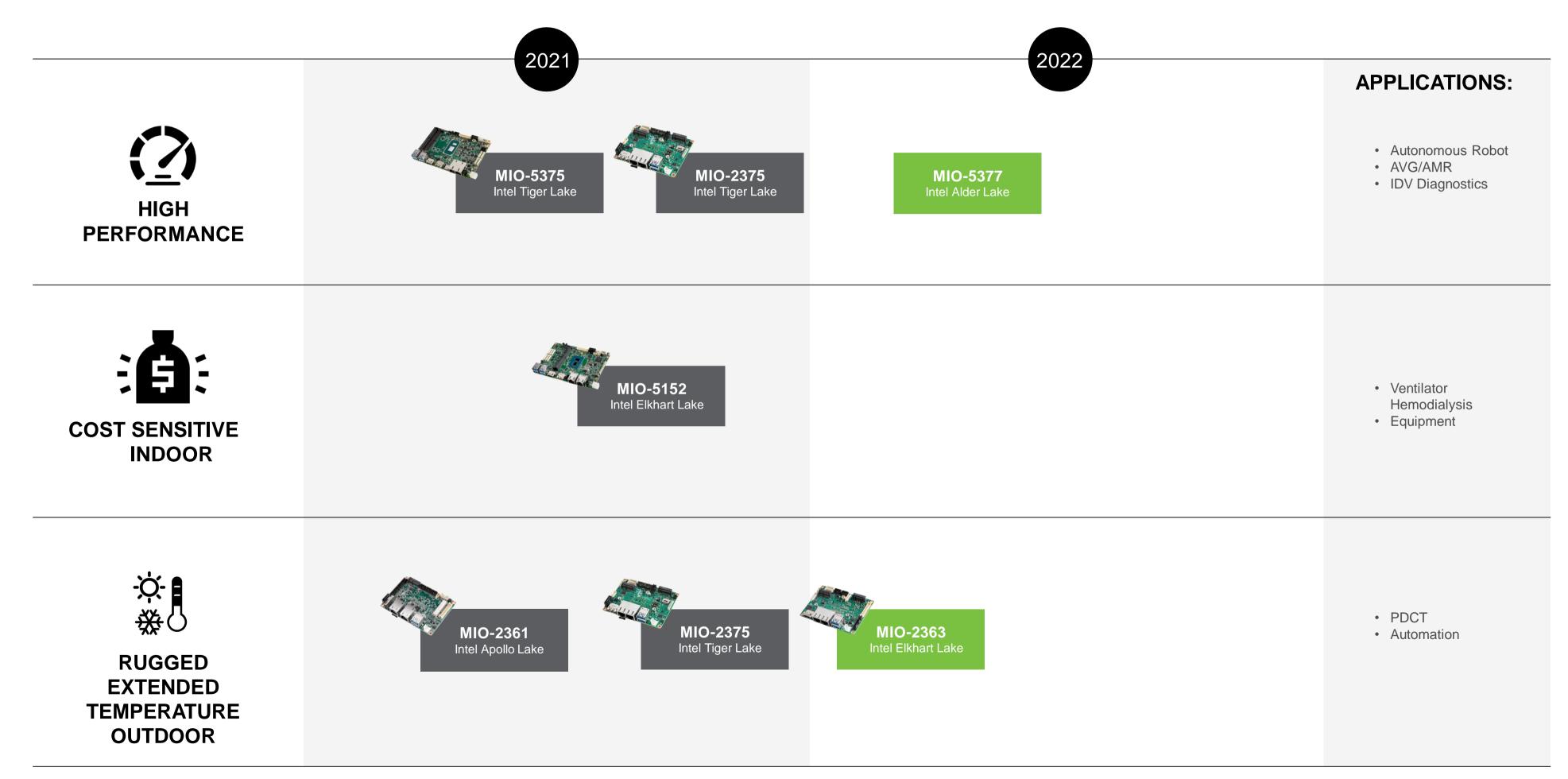


3.5" SBC



SINGLE BOARD COMPUTERS ROADMAP





MIO-2375/ MIO-5375, SOM-5883/ SOM-6883/SOM-7583

STAR PRODUCTS



11th Gen Intel® Xeon® W-11865MRE

8 cores, 16 threads, 24M Cache, up to 4.70 GHz



11th Gen Intel[®] Core[™] i7-1185G7E/ i7-1185GRE 11th Gen Intel[®] Core[™] i7-11850HE

4 cores, 8 threads, 12M Cache, up to 4.40 GHz 8 cores, 16 threads, 24M Cache, up to 4.70 GHz



11th Gen Intel® Core™ i5-1145G7E/ i5-1145GRE

4 cores, 8 threads, 8M Cache, up to 4.10 GHz



11th Gen Intel® i3-1115G4E/ i3-1115GRE

2 cores, 4 threads, 6M Cache, up to 3.90 GHz



11th Gen Intel® Celeron 6305E

2 cores, 2 threads, 4M Cache, up to 1.80 GHz

PHASE IN

2021 / Q3

LONGEVITY

2035 / Q4

Rugged Multi-functional & High Reliability Design

7/24 reliability, OOB Monitory, Real time recovery
On board DDR4 memory/ Anti-vibration thermal solution 8-24V
DC wide range power input
-45~85°C of operating temperature

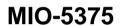
Rich I/O, Easy Integration

GbE LANs, USB3.2, USB Type-CCOM port, multiple display Extension slot for Wireless conn., CAN Bus, GbE LANs, UART, DIO Supports 4 x 2.5" SATA III hard drive bays with Intel Raid solutions

Equipment Management Built-in

Al Performance Evaluation & Simplified implementation Supports industrial protocols for integration Remote monitoring via a pre-installed dashboard







MIO-2375



SOM-6883



SOM-7583



SOM-5883



Edge Solutions Enabling the Future of AloT









Edge Al Software & Inference

Edge Intelligence
Software & Cloud



Wireless Connectivity

Domain-focused Solutions

ECGE







Edge Computers



Edge Intelligence Servers



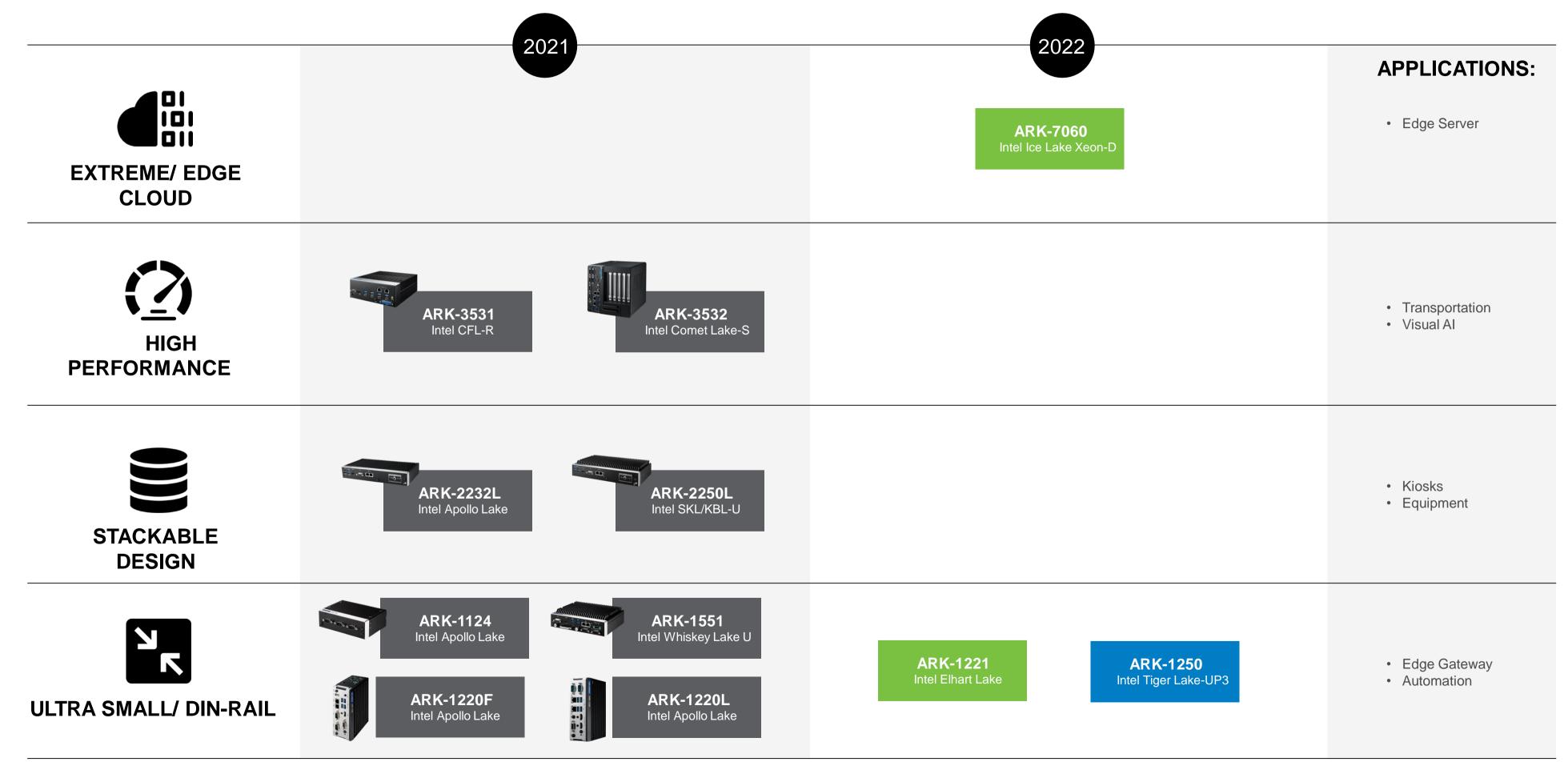
Edge Visualization Solutions



Edge AI Systems

ARK EDGE COMPUTERS ROADMAP





ARK-3532

STAR PRODUCTS



Intel® Xeon® W-1290TE Processor

10 cores, 20 threads, 20M Cache, up to 4.50 GHz



10th Gen Intel® Core™ i9-10900E

10 cores, 20 threads, 20M Cache, up to 4.70 GHz



10th Gen Intel® Core™ i7-10700E

8 cores, 16 threads, 16M Cache, up to 4.50 GHz



10th Gen Intel® Core™ i5-10500E

6 cores, 12 threads, 12M Cache, up to 4.20 GHz



10th Gen Intel® i3-10100E

4 cores, 8 threads, 6M Cache, up to 3.80 GHz

PHASE IN

2021 / Q1

LONGEVITY

2027 / Q4

Rugged, High Expansibility Design

- 2/ 3/ 4 slot expansion slot options with PCI/PCIex4/PCIex16 interfaces for GPU, data acquisition & serial communication cards
- 9-36VDC wide range power input
- -20~60°C of operating temperature

Versatile I/O, High Capacity Storage

- 4GbE, 4 USB3.2, 4 USB3.0, 6COM, 16bit DIO
- 4 x 2.5" SATA III drive bays with Intel RAID support

Equipment Management with Built-in **DeviceOn/iEdge**

- Supports Modbus, OPC UA, and other PLC base protocol for data integration
- Remote monitoring via a pre-installed dashboard
- · Real-time computing and edge analytics

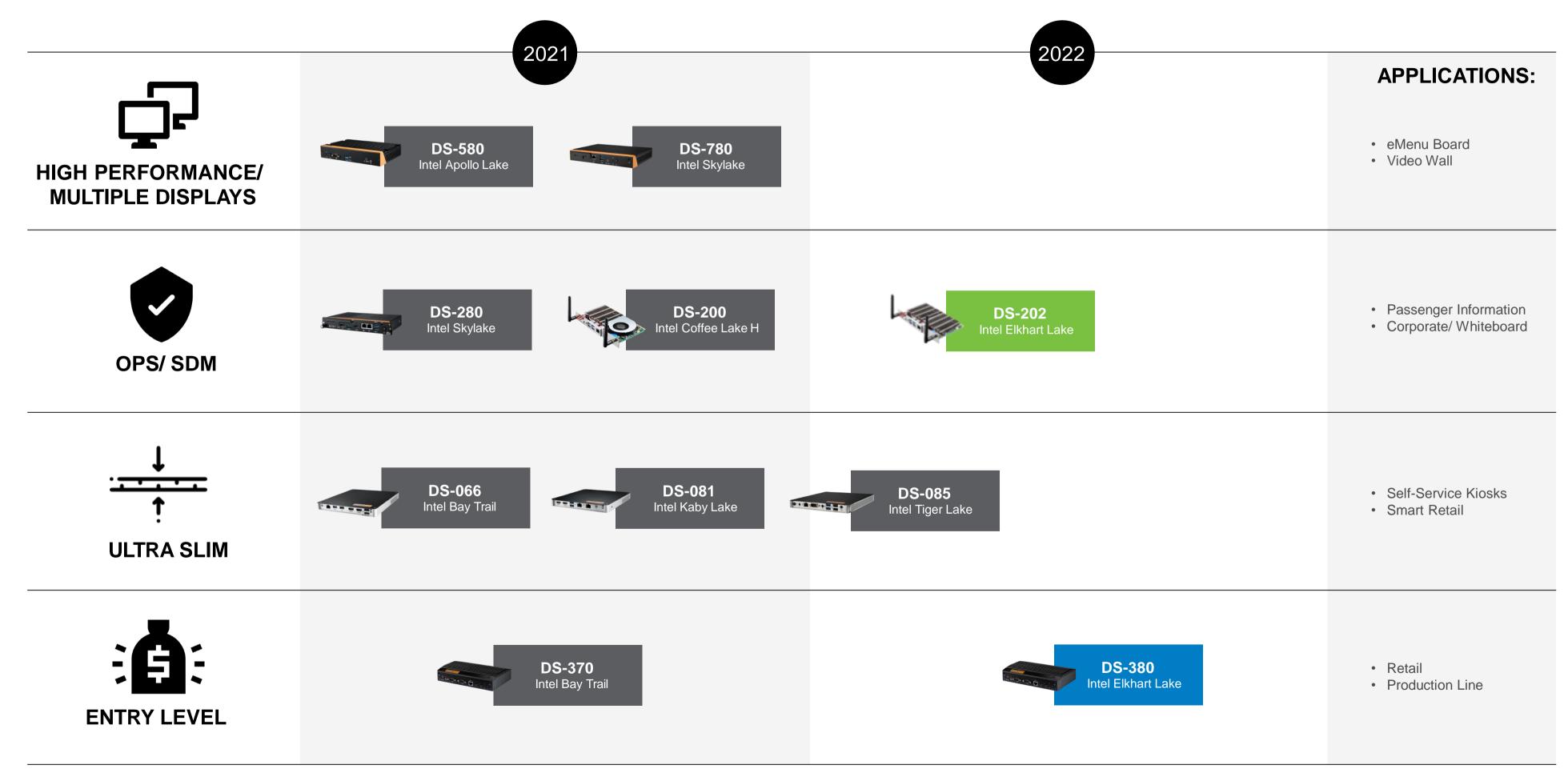






EDGE VISUALIZATION SOLUTIONS ROADMAP





STAR PRODUCTS



Intel® Celeron 6305E In Processor

2 cores, 2 threads, 4M Cache, up to 1.80 GHz



11th Gen Intel® Core™ i3 1115G4E

2 cores, 4 threads, 6M Cache, up to 3.90 GHz



11th Gen Intel® Core™ i5 1135G7

4 cores, 8 threads, 8M Cache, up to 4.20 GHz



11th Gen Intel® Core™ i7 1165G7

4 cores, 8 threads, 12M Cache, up to 4.70 GHz

PHASE IN

2021/Q2

LONGEVITY

2026/Q4

Ultra Slim, Ultra Powerful

4 independent 4K outputs via HDMI 2.0 x 4 High performance computer vision and Al acceleration Slim design with only 19mm thickness

Easy Installation & Maintenance

Supports wall mount, VESA, and DIN-rail mounting Fanless and cableless design Energy Star® certified for cutting edge energy efficiency

Remote Management Built-in WISE-PaaS/SignageCMS WISE-DeviceOn

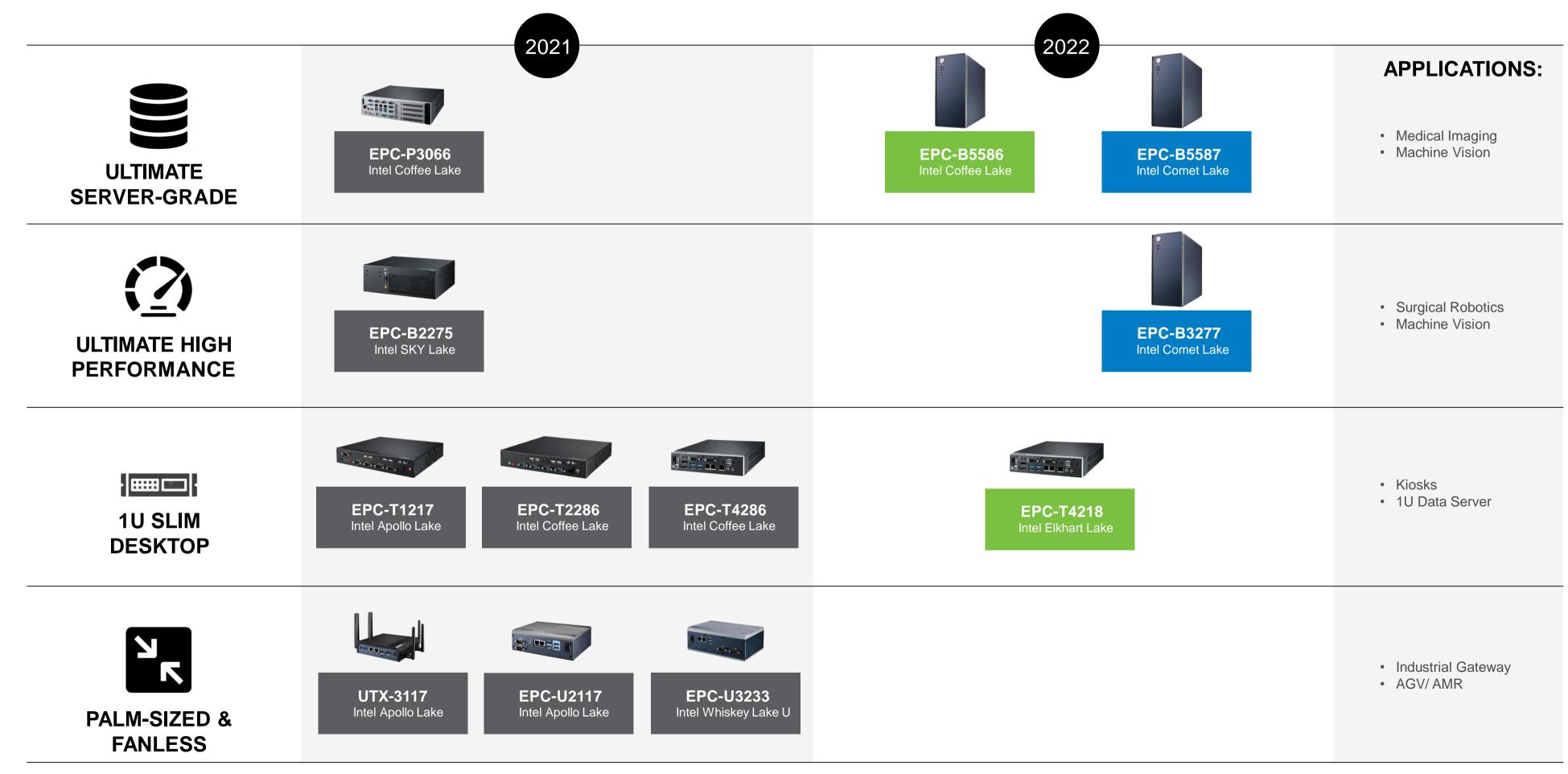
Seamless content editing, scheduling and dispatch Device monitoring and OTA functions McAfee whitelist and Acronis recovery tools integrated





EPC EDGE COMPUTERS ROADMAP





EPC-B5587 MEDICAL PACS WORKSTATION

STAR PRODUCTS



Intel® Xeon® W-1290E Processor

10 cores, 20 threads, 20M Cache, up to 5.20 GHz



10th Gen Intel® Core™ i9-10900E

10 cores, 20 threads, 20M Cache, up to 4.70 GHz



10th Gen Intel® Core™ i5-10500E

6 cores, 12 threads, 12M Cache, up to 4.20 GHz



10th Gen Intel® i3-10100E

4 cores, 8 threads, 6M Cache, up to 3.80 GHz

PHASE IN

2021 / Q4

LONGEVITY

2028/Q4

GPU Compatibility

1200W PSU with 80+ GOLD Efficiency Level
Both Industrial & Residential Level EMC Protection Vibration 1Grms

Highly Reliable Functionality

Up to 6 SATA SSD with RAID 0/1/5/10 Up to 4 ECC Memeoty Dual BIOS Socket for Redundancy 2 10GbE Ports for High Speed Communication TPM2.0

Comprehensive Certifications

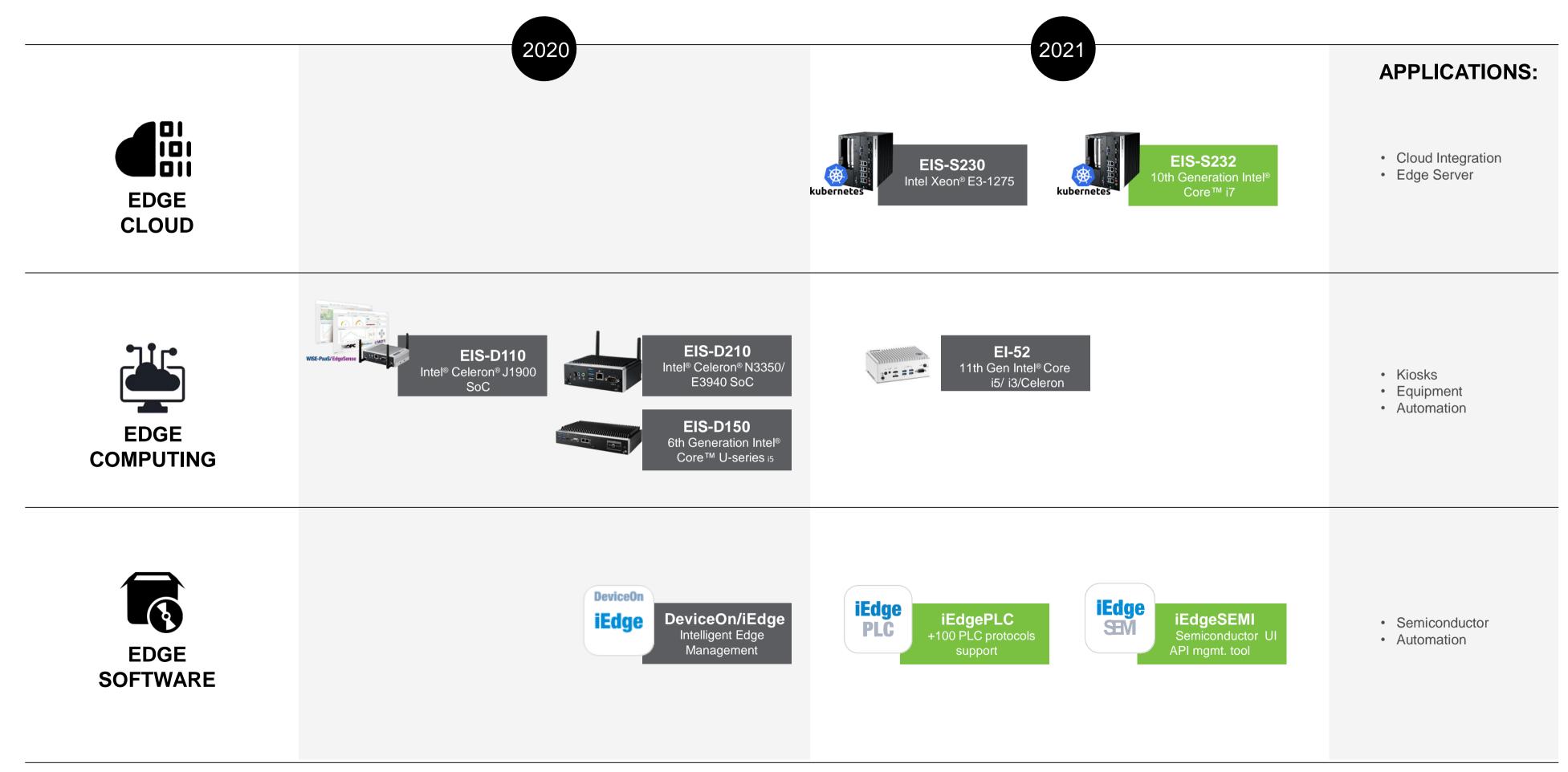
CE / FCC / CB & UL 62368-1 / CCC / BSMI





EIS EDGE INTELLIGENCE SYSTEM ROADMAP





EI-52 COMPACT HIGH PERFORMANCE EDGE INTELLIGENCE SYSTEM

STAR PRODUCTS



11th Gen Intel® Core™ i5-1145G7E

4 cores, 8 threads, 8M Smart Cache, up to 4.1 GHz



11th Gen Intel® Core i3-1115G4E

2 cores, 4 threads, 6M Smart Cache, up to 3.9 GHz



11th Gen Intel® Celeron 6305E

2 cores, 2 threads, 4M Smart Cache, up to 1.8 GHz

PHASE IN

2021 / JUNE

LONGEVITY

2027/Q4



Plug & Play System Design

Easy start-up and configuration for IoT deployment 11th Gen Intel® delivers powerful computing in compact package with built-in SSD/memory

Edge-to-Cloud Interconnection

Integrated software architecture and low-code integration
Sensing data integration and built-in remote device management software

EDGE X FOUNDRY WISE-DeviceOn

5G WiFi and Al Platform Ready

Compatible AI acceleration module with Intel® Movidius™ Myriad X VPU Compatible WiFi and 5G modules achieve faster throughput and higher traffic capacity











AI-ENABLED ON-SITE PRODUCTION LINE MONITORING

USE CASE

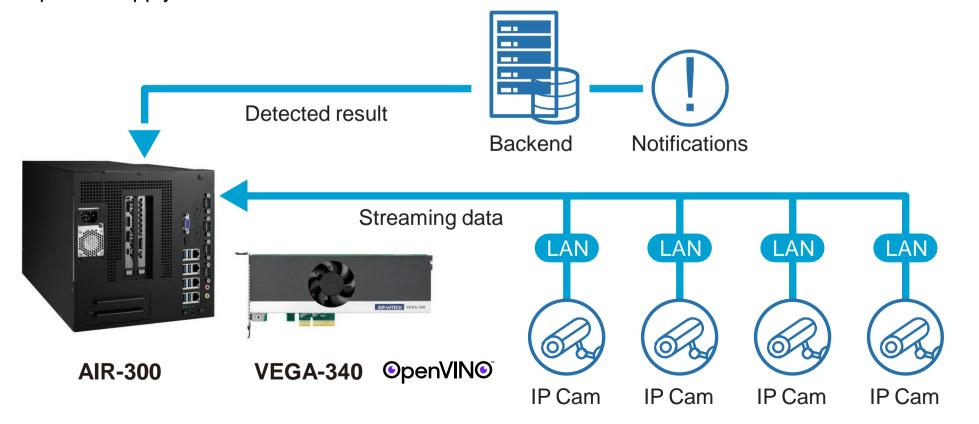
Configuration:

AIR-300 + VEGA-340

• Requirements:

An edge AI inference system with IP cameras that monitor operators' movements on factory floors and detect abnormal behavior — such as lingering or working without gloves.

- 1. High performance inferencing capability with Intel® Xeon® CPU
- 2. Al acceleration with power efficient Intel® Myriad™ X VPUs
- 3. High bandwidth 4 x GbE and max. 20TB storage capacity
- 4. Equipped with a built-in 850W power supply, so the customer didn't need to add an external power supply





EMPOWERING AUTONOMOUS MOBILE ROBOTS

• Solution:

MIO-5375

• Requirements:

AMR devices need powerful embedded single board computers with multiple I/O interfaces for cameras, sensors, control broads, displays, and other end devices connections

• Benefits:

- 1.11th Gen. Intel® Core™ Processors with Quad/Dual Cores increase performance by 40%
- 2. Fanless for low power consumption design (15W)
- 3. Expansion for up to 6x high-definition input cameras
- 4. Onboard CAN Bus interface for motion control



USE CASE



CENTRALIZED MANAGEMENT SMART ENERGY STORAGE SYSTEMS

USE CASE

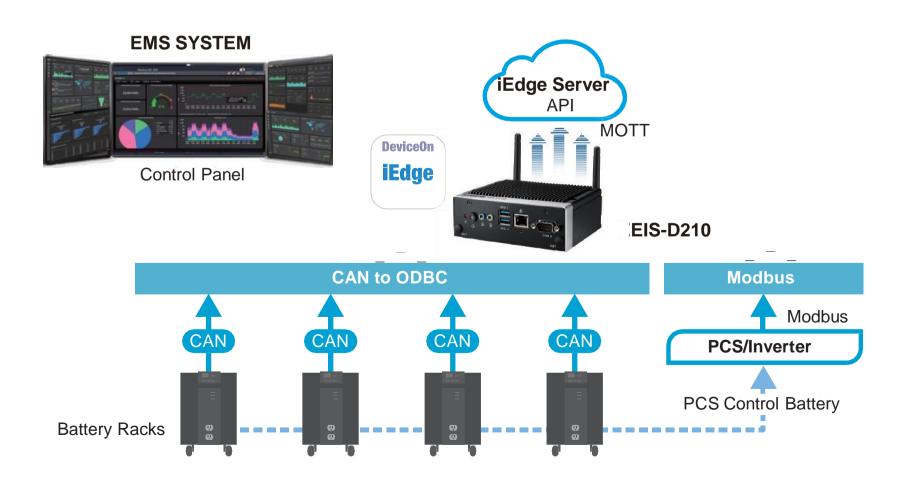
Solution:

EIS-D210 & iEdge industrial app

• Requirements:

A centralized management system that supports different communication protocols in different IT environments.

- 1. Pre-configured system: Intel® Celeron® N3350 SoC, Win 10 Ent, 64 GB SSD and wireless networking
- 2. Reduces the implementation barriers with hardware and software integrated solutions
- 3. Remotely monitor and analyze power consumption in real time
- 4. Reduced electricity costs by 15 ~ 20% by analyzing power usage during peak/off-peak hours





DELIVERS EXCELLENT GRAPHICS AND AI PERFORMANCE TO ULTRASOUND DEVICES

USE CASE

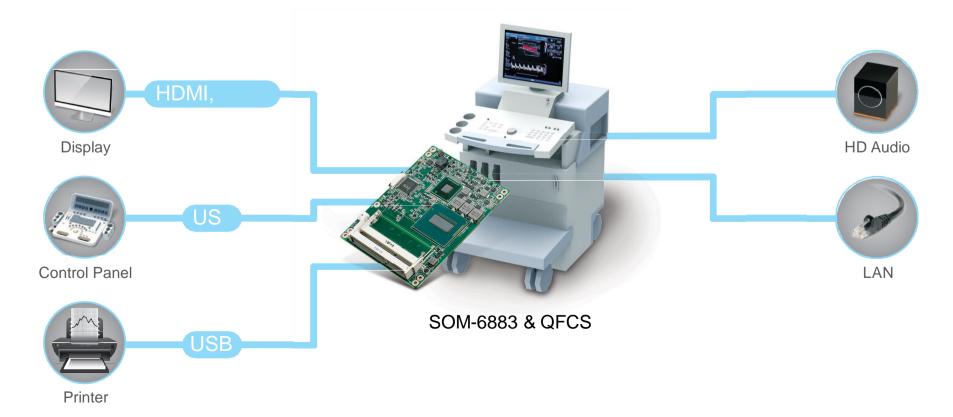
Configuration:

SOM-6883 and QFCS

• Requirements:

Ultrasound machines require extreme processing performance and graphics rendering to enhance diagnostic accuracy, and instantly acquire precise images.

- Fast processing performance for high-resolution, real-time imaging powered by 11th Gen. Intel® Core™ Processors and Intel iRIS® Xe graphics
 - Advantech QFCS (Quadra Flow Cooling System) technology with low profile and low noise features
 - Low profile board with anti-vibration memory down design
 - Four independent 4K displays (up to two 8K)





INDOOR NAVIGATION SYSTEM WITH DEEP LEARNING ENHANCES TOURING EXPERIENCES

USE CASE

Solution:

AIMB-U233

• Requirements:

An edge computer that is capable of indoor positioning facilities, sophisticated triangulation algorithms, Al smart guidance for reliable 24/7 operation.

- 1. Intel 8th Gen Core processors ideal for deep learning inference computing
- 2. Supports Wi-Fi/BT and 4G LTE modules
- 3. Dual GbE ports for smart devices communication
- 4. Supports Intel® vPro (For i5 and i7 CPU)





RELIABLE IN-VEHICLE SYSTEMS IMPROVE ROAD SAFETY

Solution:

ARK-2250R

• Requirements:

A ruggedized, reliable, and internationally certified In-vehicle surveillance system

• Benefits:

- 1. High-performance Core i processors that ensure real-time video transcoding and processing with 8ch x 1080p @30fps IP camera connection
- 2. Adheres to EN50155, EN50121, IEC61373 certifications
- 3. Supports dual LTE Cat6 300/50Mbps bandwidth & dual Wi-Fi extension as hot spot point
- 4. Ultra wide operating temp. -40 \sim 70 °C (-40 \sim 158 °F)



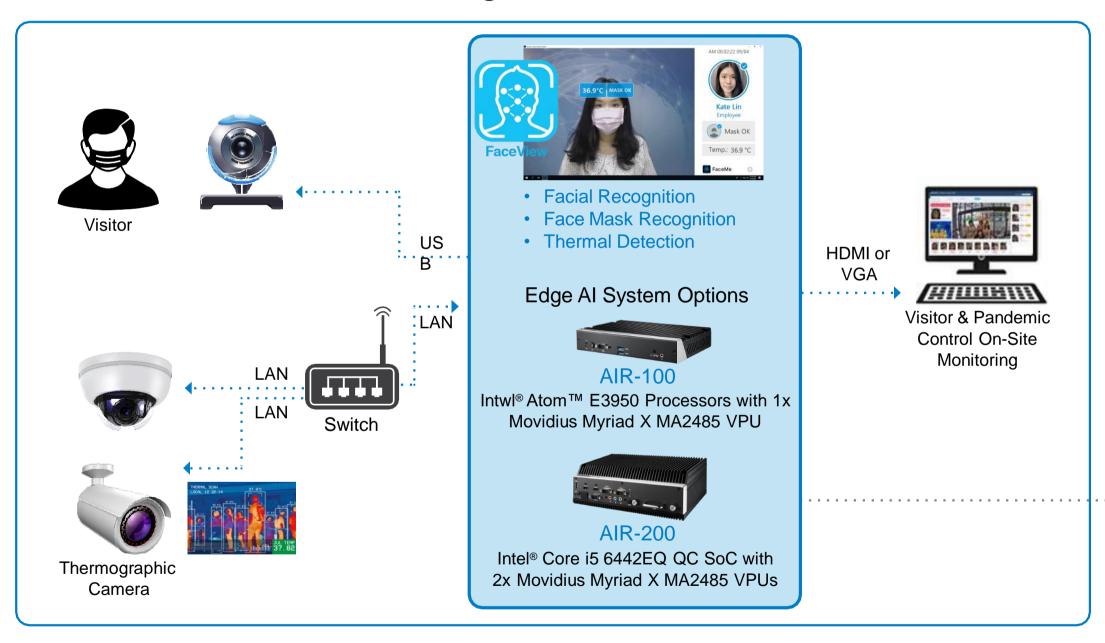
USE CASE



AI FACIAL MASK DETECTION & BODY TEMPERATURE SCREENING SOLUTIONS

USE CASE

Visitor Facil Recognitioin & Thermal Detection Site



Security & Management Department





Edge Al Solutions

Accelerating Vision Al Deployment at Scale

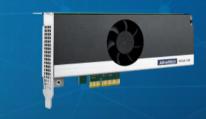
AI Acceleration Cards



VEGA-320



VEGA-330



VEGA-340



AIR-100





AIR-101



Edge AI Systems

AIR-200



AIR-300

AI Facial Recognition



OpenVINO



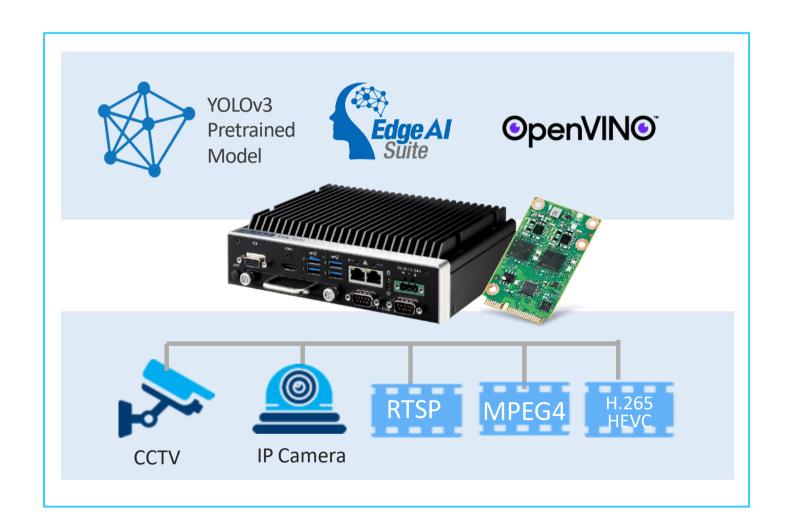
Intel® DevCloud FOR THE EDGE





INTEL® IOT RFP READY KITS

ADVANTECH ARK-1551 + VEGA-330 VISION AI READY PLATFORM FOR VIDEO SECURITY AND PUBLIC SAFETY



Kit Introduction

Video security and public safety solutions for transportation and government scenarios help create safer environments for passengers and facilitate remote management and monitoring. The Advantech ARK-1551 + VEGA-330 Vision AI Ready Platform for Video Security and Public Safety solution is powered by Intel technology and Advantech's YOLOv3 AI model on Edge AI Suite for object detection and inferencing to develop crowd heatmaps and object detection.

How It Works

Cameras and CCTV are equipped with Intel® Core™ i5 Processors and Intel® Movidius™ Myriad™ X to deliver high-performance machine vision at ultra-low power. The Advantech Edge AI Suite with YOLOv3 AI model optimizes video streaming using analytics and object detection applications. The Advantech Edge AI Suite connects to CCTV and IP cameras to process video data in real-time. Then, the YOLOv3 algorithm analyzes the video data to detect objects of interest like vehicle license plates. The Intel® Distribution of OpenVINO™ toolkit facilitates and optimizes the framework and development of the YOLOv3 model. Together YOLOv3 and the Edge AI Suite improve frame per second performance with fast detection speeds and high accuracy.

Imagine the



License Plate Recognition

SIs can utilize the ARK-1551 kit to support customers deploying license plate recognition for safe and secure traffic management. Object detection and AI inference track objects with great speed and accuracy.



Crowd Management

The ARK-1551 kit can allow SIs to develop crowd heatmaps in observed spaces with AI inferencing for customers wanting to measure capacities and areas of high traffic.

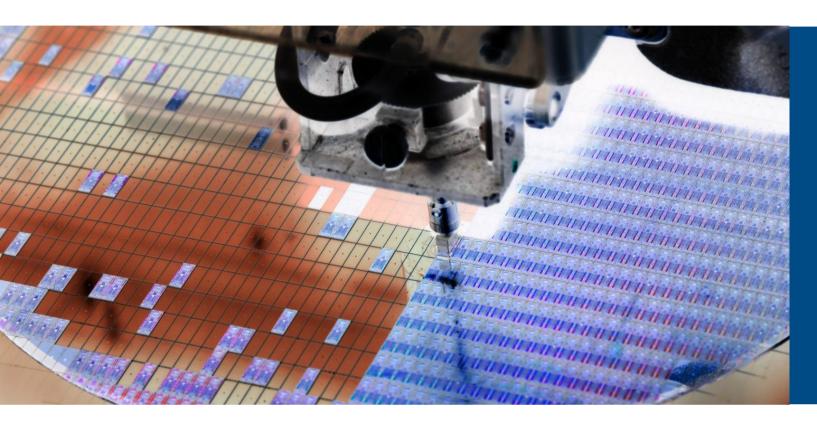


Transit Safety

SIs can use the kit as a foundation for situational monitoring solutions deployed on trains, busses, and ships in harsh conditions.

INTEL® IOT MARKET READY SOLUTIONS (MRS)

EQUIPMENT VIBRATION MONITORING SOLUTION



Advantech's Equipment Vibration

Monitoring Solution is an integrated
solution-ready package that facilitates realtime vibration monitoring, time- frequency
vibration data analysis, and alarm
maintenance. This can reduce equipment
maintenance costs and provide a
predictive maintenance mechanism,
ensuring a high return on investment.

3rd Party Vibration Software



Solution Packages

EIS-D150 6th Generation Intel[®] Core™ U-series i5,Win 10 with 8GB RAM, 256 GB SSD DeviceOn/iEdge Intelligent Edge Management Software and equipment status dashboard Optional Vibration Software

- 1. AnCAD Vibration Analysis Monitoring
- 2. GOOD TECH VMS-ML

Feature Highlights



Real-Time Vibration Monitoring

Vibration sensor data collection and preprocessing for real-time monitoring and response at the edge



Vibration Data Analysis

Various algorithm for vibration analysis, including spectral analysis, time, frequency



Condition Monitoring

Pre-loaded equipment status dashboard with remote monitoring, threshold alarms, and predictive maintenance intelligence

EMBEDDED SOFTWARE SERVICES

DeviceOn/iEdge

Data & Edge Management

DeviceOn/CommBridge

Equipment Protocol Conversion

DeviceOn/Kiosk⁺

Remote Kiosk Management

Plug & Play IoT Deployment

Device Management

Data Management



DeviceOn/Display

Industrial Display Remote Control

DeviceOn/ePaper

ePaper Device Management

DeviceOn/SQ Manager

SSD/Memory Monitoring & Security

Flexible Business

Software Appliation Management

Cloud Platform Integration

Embedded BIOS Services

Multi-Layered Security

- Storage Security
- Booting Management
- Compliant to TCG OPAL 2.0, Boot Guard, BIOS Guard, Secure Boot, Top-Swap
- One-Click System Recovery

Customization Services

- Domain-focused Design
- Expert Consulting
- Customization Utilities

BIOS Utilities

- Logo Change
- DMI Editor
- Configuration Tool
- EC Update Tool





Global MS Embedded License Distributor

Achieve centralized global logistics and pricing, streamlining the license procurement process.



Global HW & SW Engineering Support

Advantech has offices in the United States and worldwide to provide real-time local support.



Windows 10 IoT Enterprise

Windows 10 IoT Enterprise is a full version of Windows 10 that delivers enterprise manageability and security to Intelligent devices. It provides license cost discount based on CPU performance and offers flexible activation methods



Vendor Consolidation

One stop shop for embedded computing needs: boards, systems, long-life SSDs, long-life RAM, NVIDIA GPUs, Microsoft products and supply chain services.



Off-the-Shelf Board Support Package

Advantech hardware has prebuilt OTS base image for different Windows OS platforms for faster time to market.



Windows Server IoT 2022

With secured, hybrid and flexible features, customers can run Windows server IoT 2022 to enable new hybrid cloud scenarios, and modernize their applications to meet evolving business requirements.

ADVANTECH NORTH AMERICA LOCATIONS

