

ADLINK Edge AI Solutions

ADLINK
LEADING EDGE AI COMPUTING

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Opportunity

Intelligence Where Data is Generated

As IoT devices proliferate, the center of data gravity is shifting from central clouds to the operational edge.

Distributed Intelligence

Harnessing the power of billions of connected devices for localized processing

Autonomous Operations

Moving beyond simple monitoring to real-time, AI-driven self-correction

Continuous Evolution

Building a future-proof foundation that grows alongside your digital transformation

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Bridging the Gap

Overcoming Edge Complexity

Deploying AI at the edge presents unique challenges that traditional IT infrastructure cannot address.

Low Latency

High-stakes decisions require sub-millisecond responsiveness. We eliminate the delay of cloud round-trips.

Scalability

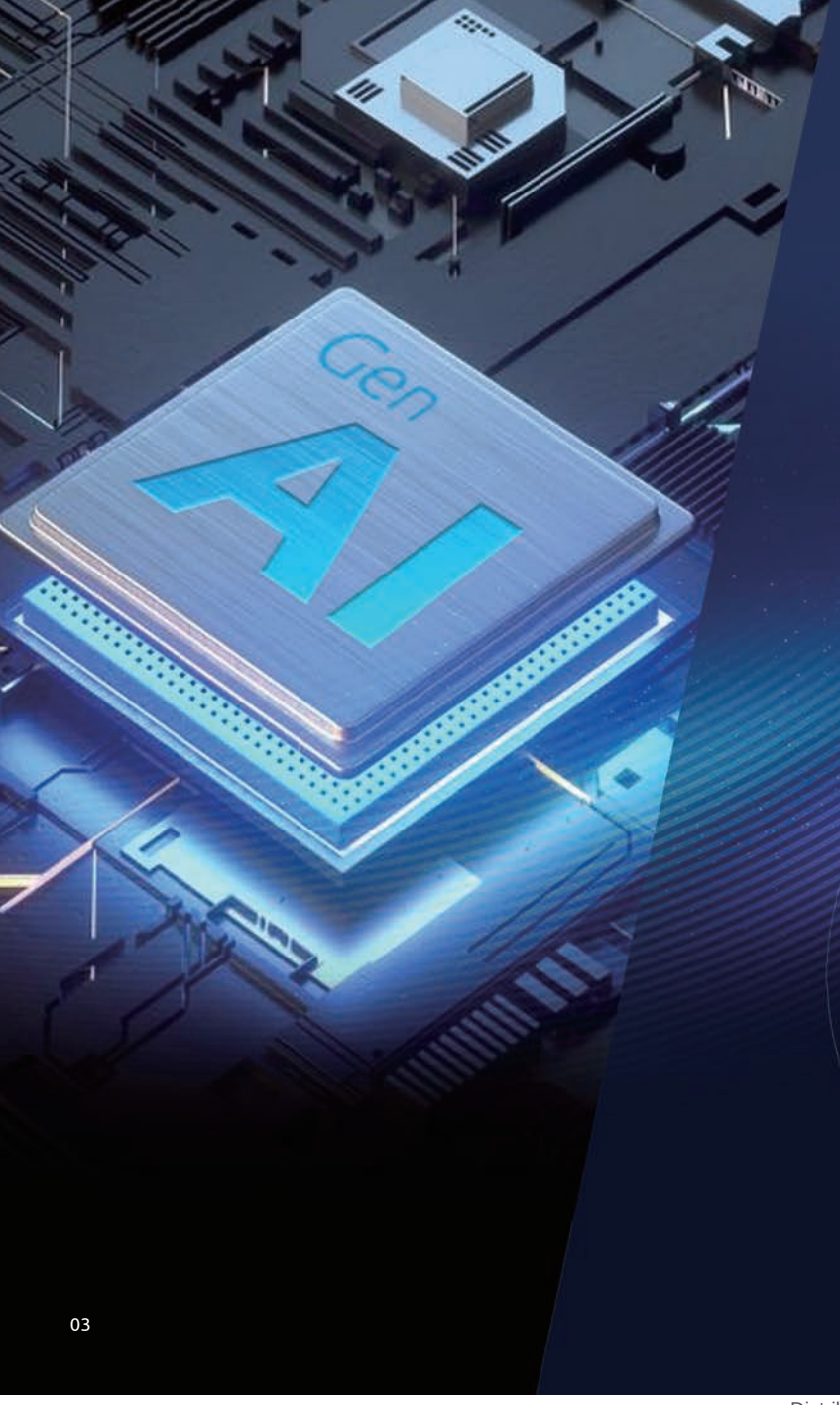
Moving from a single POC to thousands of global nodes requires a unified, scalable hardware-software architecture.

Durability

From vibration-heavy factory floors to extreme outdoor temperatures (-40°C to 85°C), the edge demands industrial-grade reliability.



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The GenAI Revolution

Intelligence Where You Need It

Transforming Maintenance, Safety, and Manufacturing with LLMs and RAG

Predictive Maintenance

Technicians can "talk" to machines using natural language to diagnose faults instantly.

Dynamic Safety

AI agents monitor hazardous zones and trigger autonomous safety responses in real time.

Edge RAG

By bringing domain knowledge directly to the local site, we ensure secure, private, and instant intelligence without cloud dependency.

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ADLINK, the Edge AI Groundbreaker



Pioneering Partnerships

A leading innovator in Edge AI, collaborating with NVIDIA to deliver industrial-grade solutions

Comprehensive Portfolio

From ultra-compact platforms to high-density servers & modules to systems, covering the full spectrum of Edge AI computing needs

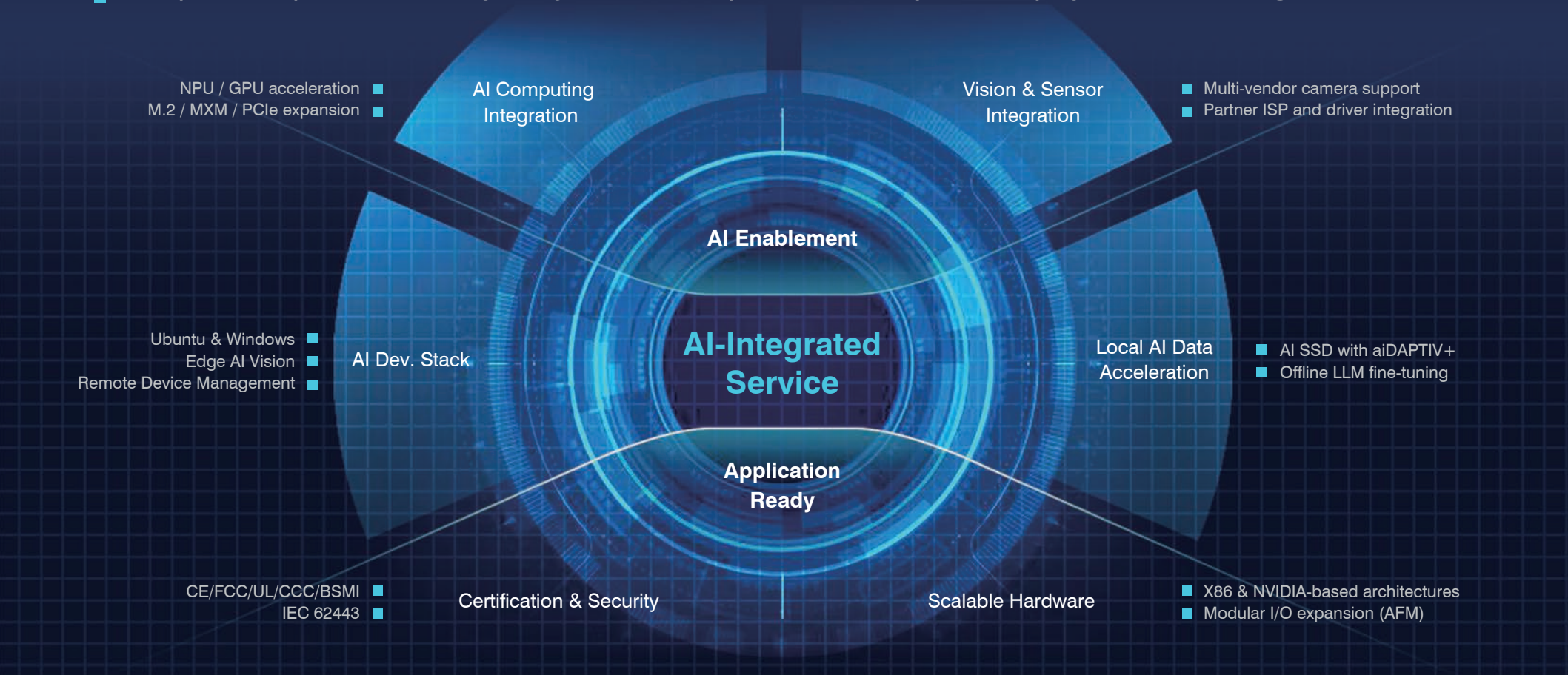
Proven Global Success

Deployed in **300+** projects across **30+** countries, trusted by leading enterprises worldwide

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Accelerating Edge AI through Integration

We provide a production-ready ecosystem that simplifies AI development, deployment, and management.

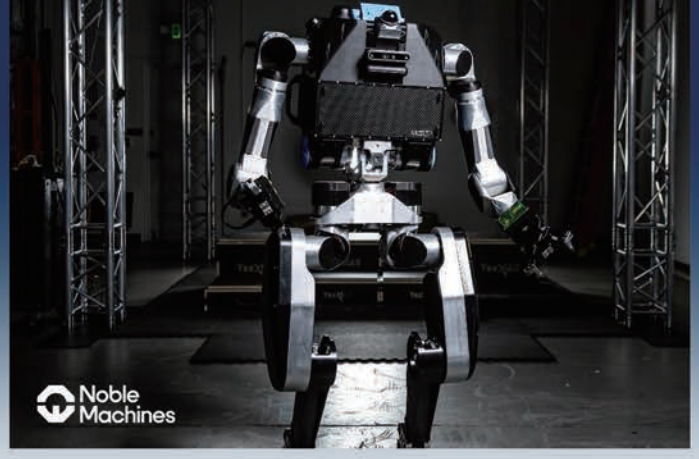


Highlight Certification

Camera Support

Edge AI Software

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Humanoid Robot

Transform hazardous operations

- Construction
- Mining & Energy
- Manufacturing & Semiconductor

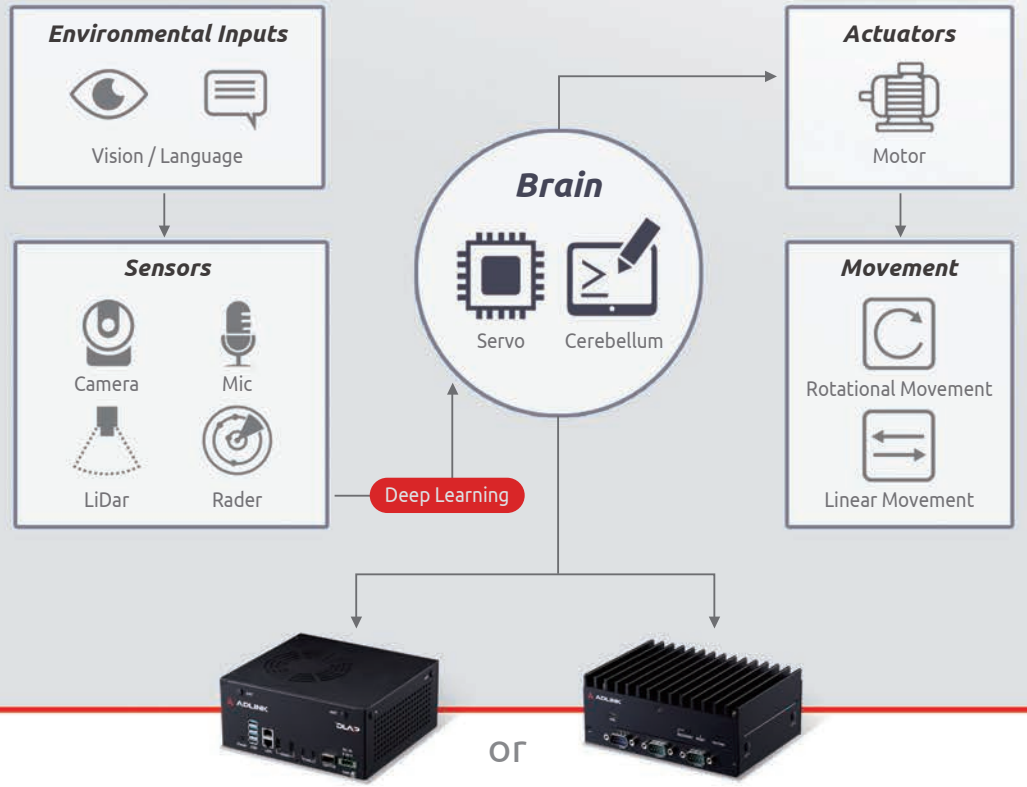
Use Case

Requirements

In heavy industry, humanoids handle high-risk tasks alongside teams, significantly boosting safety and efficiency. To succeed, they must perceive and act in real time—navigating uneven terrain and tight spaces while operating safely near people and equipment.

Solution

- Carrier board reference design and schematic support
- Custom BSP and firmware development
- Platform optimization tailored for real-time robotics workloads
- Hands-on product bring-up and ongoing engineering support



DLAP-701

Edge AI Platform Powered by NVIDIA® Jetson Thor™

RQX-31G

Embedded ROS 2 Robotic Controller Powered by NVIDIA® Jetson Orin™ NX

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Quadruped Patrol Robot

Navigating harsh, safety-critical sites

- Public Safety
- Infrastructure

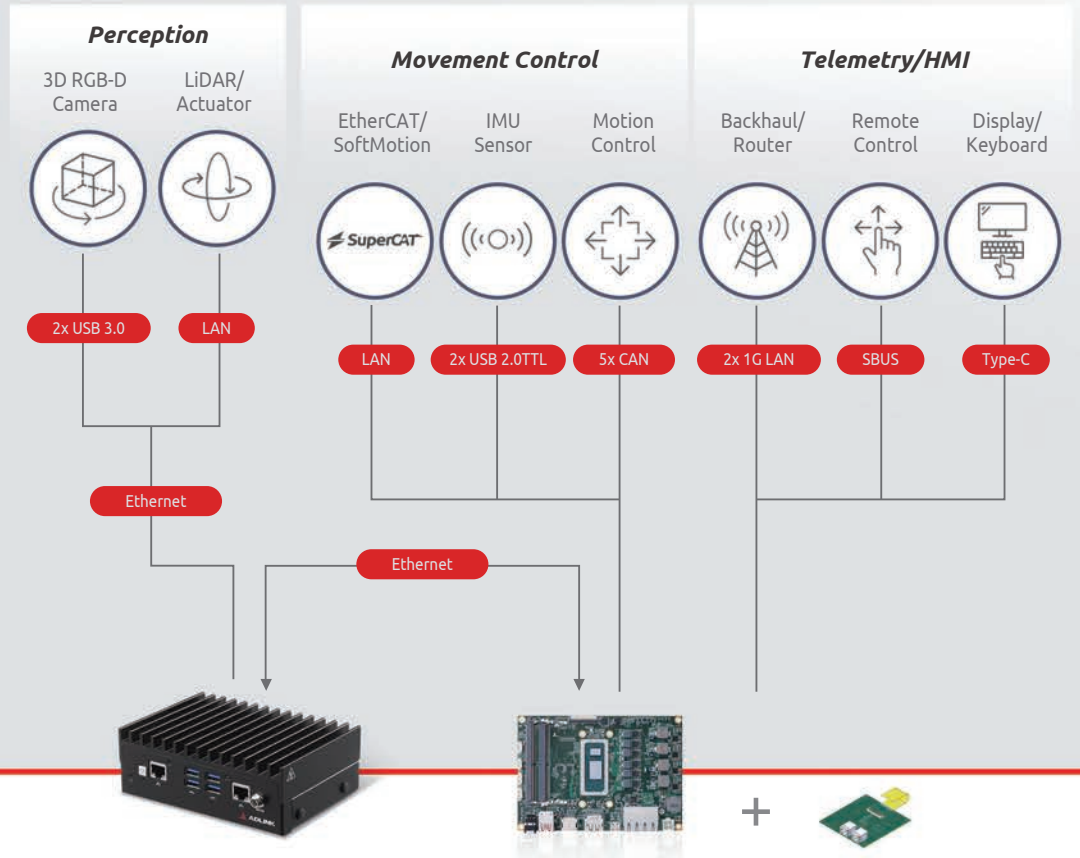
Use Case

Requirements

To excel in high-risk industrial environments, production-grade quadrupeds must harmonize 24/7 environmental resilience with deterministic control. This requires a compact, highly integrated architecture that eliminates resource contention between AI perception and real-time motion, ensuring seamless, low-latency performance in complex terrains.

Solution

- With DLAP-211-Orin, on-device AI vision delivers real-time anomaly detection throughout patrols
- SBC35 + SBC-FM provide deterministic control and modular I/O for stable EtherCAT/CAN gait while enabling fast add-ons for RGB-D, LiDAR, and IMU sensors
- A field-ready 24/7 design with wide-temperature, rugged construction supports continuous outdoor rounds with minimal service

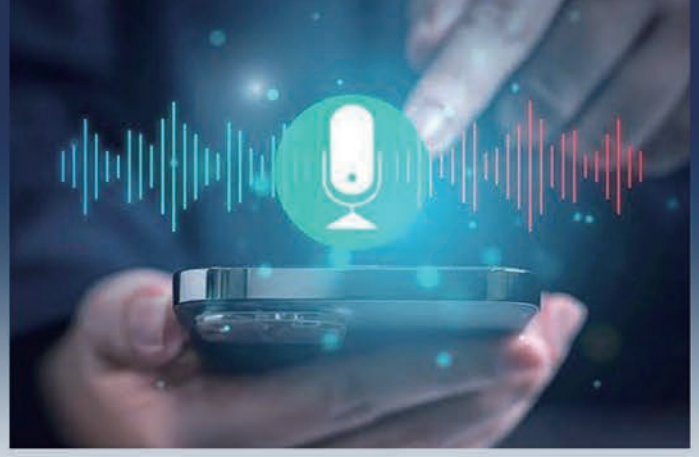


DLAP-211-Orin
Edge AI Platform Powered by NVIDIA® Jetson Orin™ NX or NVIDIA® Jetson Orin Nano™

SBC35-RPL
3.5" Single Board Computer with 13th Gen Intel® Core™ i7/i5/i3/ Celeron® Processor

SBC-FM
Flexible, Customizable Modules for ADLINK 3.5” Single Board Computers

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Interactive AI Avatar

Delivering natural, multimodal engagement through real-time TTS and emotional AI

- Retail
- Enterprise
- Public Spaces

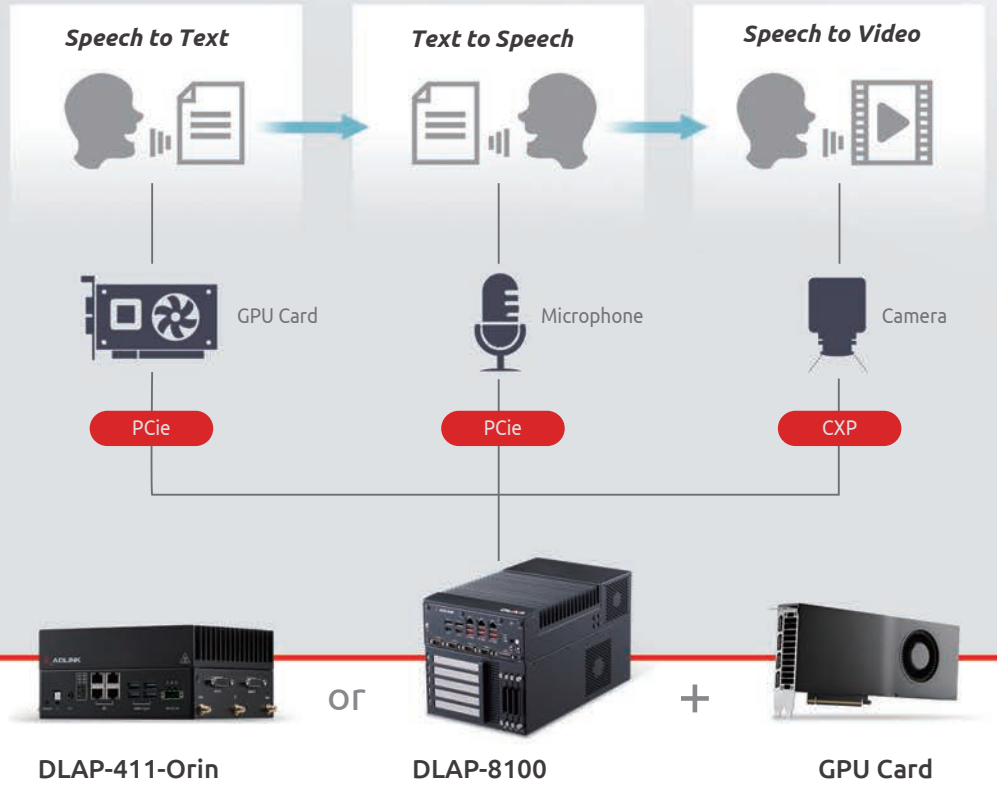
Use Case

Requirements

Delivering natural, multimodal engagement through real-time TTS and emotional AI. This solution enables seamless human-robot interaction by integrating edge intelligence with lifelike visual synthesis.

Solution

- Real-time Synthesis: Optimized STT/TTS/STV pipelines for zero-latency, lifelike interaction
- Edge LLM Integration: Secure, on-device multimodal processing via high-performance PCIe graphics
- Robust 24/7 Operation: Industrial-grade reliability for continuous retail and enterprise workloads
- Custom Integration: Expert BSP and firmware support for seamless emotional AI deployment



DLAP-411-Orin
Edge AI Platform Powered by NVIDIA® Jetson AGX Orin™

DLAP-8100
Edge AI Platform Powered by Intel® Core™ 200S Series Processor

GPU Card

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Use Case

Requirements

Manual supplier surveys and fragmented data sifting slow down manufacturing workflows, while data privacy concerns prevent cloud-based processing. Legacy infrastructure adds further instability to complex project management.

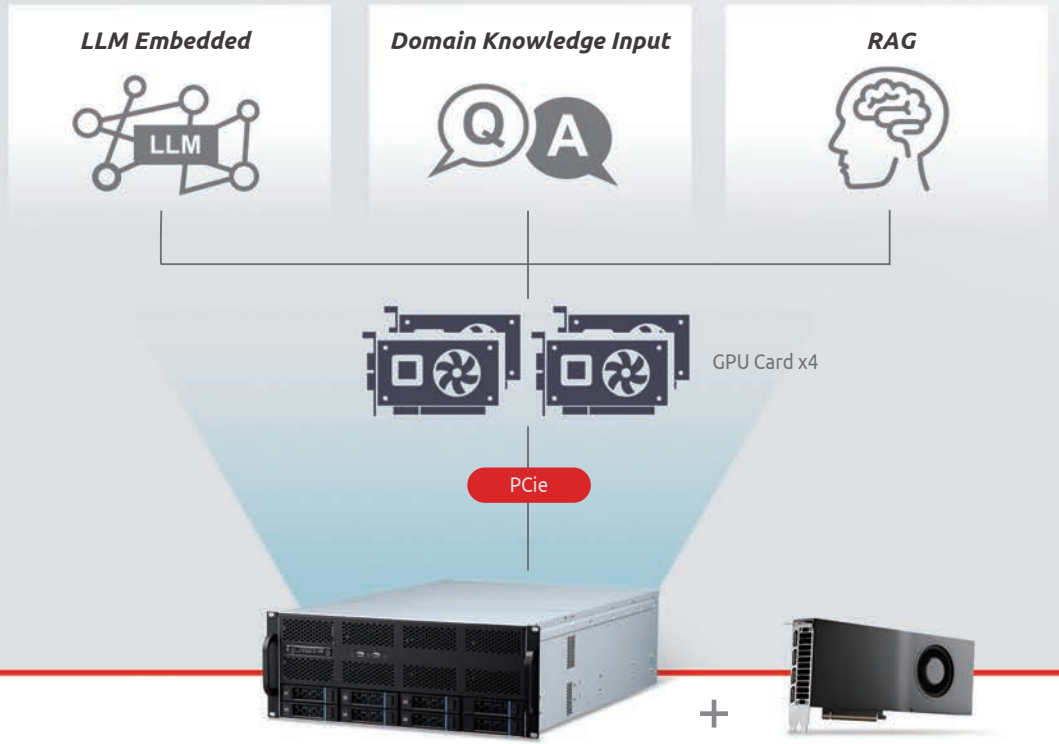
Solution

- Data Sovereignty: Localized Edge LLM + RAG ensures sensitive cost and product data stay on-site
- Automated Intelligence: Transforms manual document comparison into instant, AI-driven SOP and supply chain insights
- Rugged Modernization: High-performance, expandable platforms replace legacy racks for superior system stability
- Deterministic Analysis: Purpose-built hardware for fast, error-free medical and industrial data processing

Knowledge Management System

Empowering real-time decisions and analysis via Edge-Based LLM & RAG

- Manufacturing
- Medical
- Enterprise



AXE-7440GW/ AXE-7440TR

Edge AI Server Powered by Intel® Xeon® 6 for Workstation or AMD EPYC™ 9004/9005 Series Processor

GPU Card

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Define Your Edge AI Scale

Light-Weight AI



City
Vehicle Monitoring



Retail
Crowd Tracking

Medium AI



Manufacturing
Scratch Detection



Logistics
AMR

Heavy AI



Humanoid &
Legged Robotics



Large-Scale LLM
Inference

<40 TOPS | **40-300 TOPS** | **300-1500 TOPS** | **1500-5000+ TOPS**

10 TOPS SOC	20-40 TOPS SOC	40 TOPS SOC	275 TOPS MXM	310 TOPS MXM	1457 TFLOPS PEG	2070 TFLOPS SOC	3000+ TFLOPS PEG
							
MXA-312M	DLAP-211-Orin	MXE-330	DLAP-411-Orin	DLAP-5200	DLAP-8100	DLAP-701	AXE Series

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ADLINK's Comprehensive Edge AI Portfolio

Systems

Compact Edge AI Platform



Embedded Edge AI Platform



Expandable Edge AI Platform



High-Performance Edge AI Server



Modules & Boards

Computer-on-Module



3.5" SBC & Mini-ITX



Server Board



Peripherals

AI Acceleration Module



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Compact Edge AI Platforms Overview

NVIDIA® Jetson Orin™

Jetson AGX Orin



RQX-59
32/64G



DLAP-411-Orin
32/64G



DLAP-411-Orin Supreme
32/64G

Jetson Orin NX Jetson Orin Nano™



DLAP-211-Orin
Support Super Mode for NVIDIA Jetson Orin Nano



DLAP-212
Support Super Mode for NVIDIA Jetson Orin Nano/ NVIDIA Jetson Orin NX



RQX-31G (GMSL2)
Support Super Mode for NVIDIA Jetson Orin Nano/ NVIDIA Jetson Orin NX

* NVIDIA® Jetson Thor™ & IGX Thor™



DLAP-701
NVIDIA Jetson T5000™ /T4000™



DLAP-IGX
NVIDIA IGX T7000™

ARM-Based & X86-Based



MXA-312M
MediaTek Genio 520/720



MXE-330
Intel® N or Atom® X

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Compact Edge AI Platform Selection

				
Model	**DLAP-211-Orin**	**DLAP-212**	**DLAP-411-Orin**	**DLAP-701**
Module	NVIDIA® Jetson Orin Nano™	NVIDIA® Jetson Orin™ NX	NVIDIA® Jetson AGX Orin™	NVIDIA® Jetson AGX Thor™
Power	25W	40W	60W	130W
GPU#	1024 Ampere	1024 Ampere	2048 Ampere	2560 Blackwell
Tensor#	32	32	64	96
Memory	8GB	16GB	32/64GB	128GB
AI Performance	67 TOPS	167 TOPS	200/275 TOPS	2070 TFLOPS

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Expandable Edge AI Platforms Overview

MXM

MXM Type A/B





DLAP-3100
9th Gen
Intel® Core™
i7/i5/i3



DLAP-3200
9th Gen Intel® Core™
i7/i5/i3
with 2 expansion slots



DLAP-5200
Intel® Core™ 200S
Series and 14/13/12th
Gen Core™

PEG

X1





DLAP-4100
Intel® Core™ 200S Series and
14/13/12th Gen Core™
2-slot expansion



DLAP-8100
Intel® Core™ 200S Series and
14/13/12th Gen Core™
4-slot expansion

X2 - X4





AXE-7420GWA
Intel® Xeon® 600 Processor
for Workstation
2x FHFLDW GPU Gen5 x16



AXE-7440GW
Intel® Xeon® 600 Processor
for Workstation
4x FHFLDW GPU Gen5 x16



AXE-7440TR
AMD 5th/ 4th Gen EPYC™
9005/9004 Series
4x FHFLDW GPU Gen5 x16

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Expandable Edge AI Platform Selection

				
Model	**DLAP-3200**	**DLAP-5200**	**DLAP-4100**	**DLAP-8100**
Support CPU	8th/9th Gen Intel® Core™ i7/i5/i3 Processors	Intel® Core™ 200S Series and 14/13/12th Gen Core™ Processors	Intel® Core™ 200S Series and 14/13/12th Gen Core™ Processors	Intel® Core™ 200S Series and 14/13/12th Gen Core™ Processors
GPU Form Factor	MXM	MXM	PEG	PEG
PCIe Slots	2	-	2	5
Memory (max.)	64GB	128GB	64GB	192GB
AI Performance	17.66 TFLOPS (MXM A4500)	17.66 TFLOPS (MXM A4500)	91.1 TFLOPS (RTX 6000ADA)	91.1 TFLOPS (RTX 6000ADA)

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Expandable Server-Class Platform Selection

	4U Server			2U Server	
					
	GenAI GPU Server		Automation GPU Server	SFF GPU Server	
Model	**AXE-7440TR**	**AXE-7440GW**	**AXE-7420GWA**	**AXE-7220TR**	**AXE-7220GW**
Support CPU	AMD EPYC™ 9004/9005 Series	Intel® Xeon® 600 Processors for Workstations	Intel® Xeon® 600 Processors for Workstations	AMD EPYC™ 9004/9005 Series	Intel® Xeon® 600 Processors for Workstations
GPU Form Factor	PEG	PEG	PEG	PEG	PEG
U / Depth	4U / 650 mm	4U / 650mm	4U / 550mm	2U / 450 mm	2U / 450 mm
Max GPU	4x FHFLDW GPU Gen5 x16	4x FHFLDW GPU Gen5 x16	2x FHFLDW GPU Gen5 x16	2x FHFLDW GPU Gen5 x16	2x FHFLDW GPU Gen5 x16
Storage	2x 2.5" SATA III or 6x 2.5" NVMe	8x 2.5'' SATA III 2x M.2 NVMe	8x 2.5'' SATA III 2x M.2 NVMe	4x 2.5'' SATA III or 2x 2.5'' NVMe 2x M.2 NVMe	4x 2.5'' SATA III 2x M.2 NVMe
Redundant Power	2x 1300W/1600W/2000W, 1+1	2x 800W/1300W/1600W, 1+1	1x 1650W	2x 800W/1300W/1600W, 1+1	2x 800W/1300W/1600W, 1+1

Expandable Server-Class Board Selection

		
Model	**ISB-W890**	**ISB-TR10**
CPU Support	Intel® Xeon® 600 Processors for Workstations	AMD EPYC™ 9004/9005 Series
GPU Form Factor	PEG	PEG
Max GPU	4x FHFLDW GPU Gen5 x16	4x FHFLDW GPU Gen5 x16
Memory	4 DIMM DDR5 6400 MT/s	8 DIMM DDR5 6400 MT/s
Storage	8x 2.5'' SATA III 2x M.2 NVMe 2x Slim SAS 4x MCIO	2x 2.5'' SATA III 6x 2.5'' NVMe 2x M.2 NVMe 5x MCIO
Networking	1x GbE, 1x 2.5 GbE	2x 1 GbE, 2x 10 GbE

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Ready to Turn Your Vision into Reality?

Every Edge AI journey is unique. Whether you are scaling LLMs at the edge or deploying a fleet of autonomous robots, our experts are here to help you select, test, and deploy instantly.

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HEAD OFFICE

ADLINK Technology, Inc.
No. 66, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan
Tel : +886-3-216-5088 Fax: +886-3-328-5706

www.adlinktech.com

ASIA

ADLINK Technology, Inc. (Taichung Liaison)
12F.-2, No. 262, Sec. 2, Henan Rd., Xitun Dist.,
Taichung City 407349, Taiwan
Tel: +886-4-2708-2338
Email: tw@adlinktech.com

ADLINK Technology, Inc. (Tainan Liaison)
Rm. A, 6F., No. 1-5, Zhonghua Rd., Yongkang Dist.,
Tainan City 710044, Taiwan
Tel: +886-6-313-7768
Email: tw@adlinktech.com

ADLINK Technology Japan Corporation (Tokyo Office)
〒 101-0045 東京都千代田区神田鍛冶町 3-7-4
KDX 神田駅前ビル 4F
Tel: +81-3-5209-6001
Email: japan@adlinktech.com

ADLINK Technology Japan Corporation (Nagoya office)
LINKS Meieki Bldg. 3F, 5-31-10 Meieki,
Nakamura-ku, Nagoya-city, Aichi 450-0002, Japan
Tel: +81-52-589-9018
Email: japan@adlinktech.com

ADLINK Technology Singapore Pte. Ltd.
1008 Toa Payoh North, 07-17/18
Singapore 318996
Tel: +65-6844-2261
Email: singapore@adlinktech.com

ADLINK Technology India Private Limited
Ground Floor, 317, Samanvitha Complex, Mayura
Street, Outer Ring Road, Byatarayanapura, Bangalore North,
Bangalore- 560092, Karnataka
Tel: +91-80-2346-4606 / +91-80-3121-3332
Email: india@adlinktech.com

ADLINK Technology Korea Ltd.
A-1503, U-TOWER, 767 Sinsu-ro, Suji-gu, Yongin-si,
Gyeonggi-do, Republic of Korea, 16827
Toll Free: +82-80-800-0585
Email: korea@adlinktech.com

CHINA

Shanghai ADLINK Intelligence Technology Co., Ltd. (AITC)
300 Fang Chun Rd., Zhangjiang Hi-Tech Park,
Pudong New Area, Shanghai, 201203 China
Tel: +86-21-5132-8988
Email: market@adlinktech.com

ADLINK Technology Shenzhen
2F, C Block, Bldg. A1, Cyber-Tech Zone, Gao Xin Ave. Sec. 7,
High-Tech Industrial Park S., Shenzhen, 518057 China
Tel: +86-755-2643-4858
Email: market@adlinktech.com

ADLINK Technology Beijing
Rm. 801, Power Creative E, No. 1,
Shang Di East Rd., Beijing, 100085 China
Tel: +86-10-5885-8666
Email: market@adlinktech.com

ADLINK Technology Beijing
Rm. 801, Power Creative E, No. 1, Shang Di East Rd.,
Beijing, 100085 China
Tel: +86-10-5885-8666
Email: market@adlinktech.com

ADLINK Technology Chengdu
Rm. 4207, 500 Tianfu Blvd Middle Section, Wuhou District,
Chengdu, Sichuan, China, 610023
Tel: +86-28-85216698
Email: market@adlinktech.com

ADLINK Technology Nanjing
Rm. 1908, 105 Zhongshan N Rd, Gulou, Nanjing,
Jiangsu, China, 210093
Tel: +86-25-86652110
Email: market@adlinktech.com

EUROPE, THE MIDDLE EAST AND AFRICA

ADLINK Technology GmbH
Hans-Thoma-Straße 8-10, 68163 Mannheim,
Germany
Tel: +49-621-43214-0
Email: emea@adlinktech.com

ADLINK Technology GmbH (Healthcare Business Center)
Ulrichsbergerstraße 17,94469 Deggendorf, Germany
Tel: +49-991-29094-10
Email: info.deg@adlinktech.com

ADLINK Technology, Inc. (Israel Liaison Office)
MIXER Herzliya (Building B, 8 Floor) 3 Arik Einstein st.
4610301, Herzliya, Israel
Tel: +972-54-632-5251
Email: israel@adlinktech.com

USA

Ampro ADLINK Technology, Inc.
6450 Via Del Oro, San Jose, CA 95119, USA
Toll Free: +1-800-966-5200
Email: info@adlinktech.com

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