ADLINK
LEADING EDGE AI COMPUTING

ADLINK's Edge AI Platforms: Powering Next-Gen General-Purpose Robots



Accelerating productivity and turning heavy-industry autonomous robotics into reality

Solution Partner:

Noble Machines

Use Case

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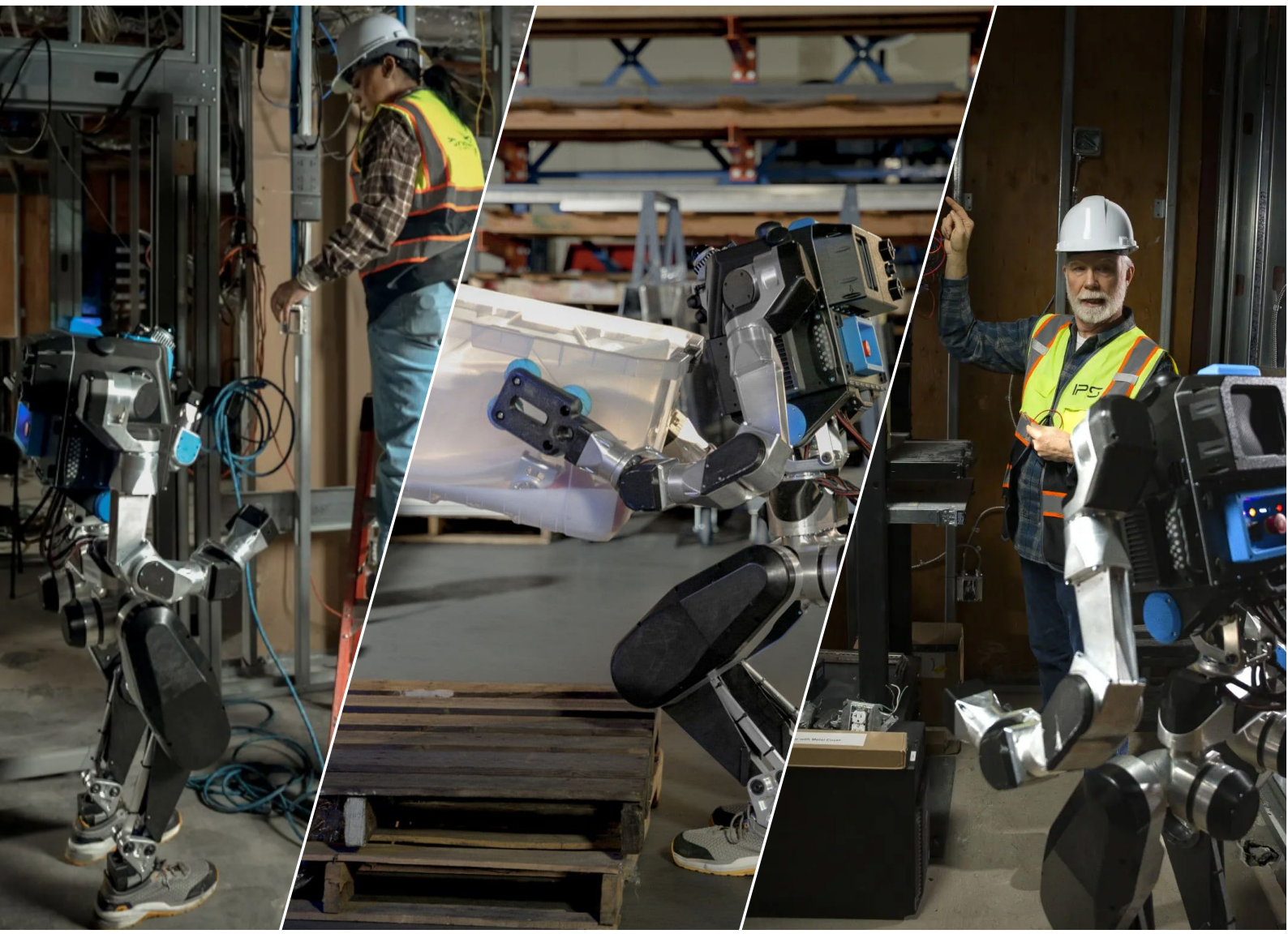
When Autonomy Meets Precise Motion

What are our expectations for robots? ADLINK believes that artificial intelligence should assist human beings, so we only focus on the practical applications. In heavy industries, what kind of embodied humanoid robots are relevant to the work? We need the robots that are designed to work alongside human teams in industrial plants, worksites, and outdoor facilities, taking on high-risk, physically demanding tasks. This not only improves operational efficiency and uptime, but most importantly, it enhances safety.

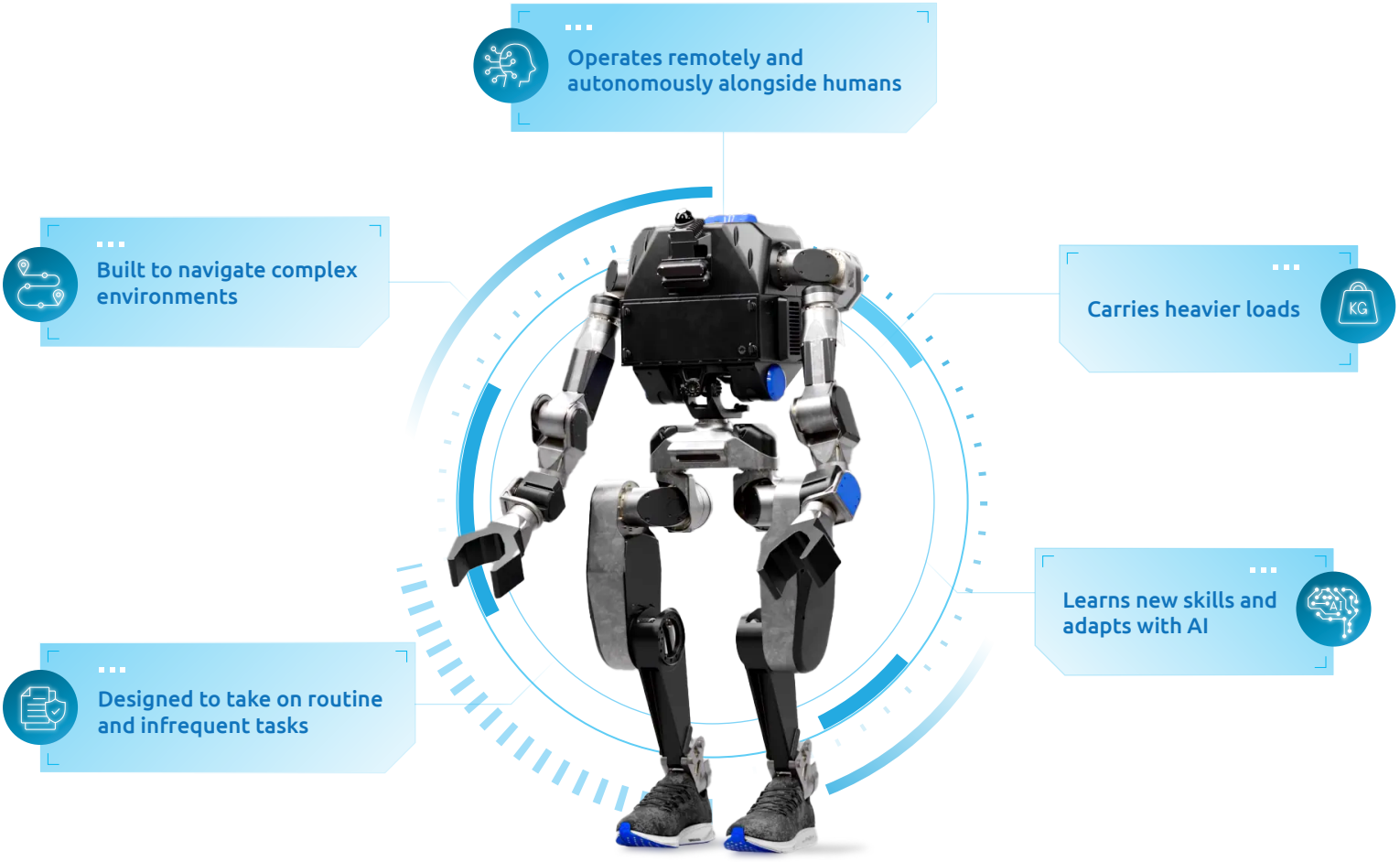
These robots must perceive their surroundings, plan, and act in real time—balancing on uneven surfaces, navigating tight spaces, coordinating complex motion, and operating safely alongside people and equipment.

At the heart of this capability is a high-performance and reliable rugged AI computing platform that fuses sensor processing, autonomous decision logic, and low-latency control—while managing strict constraints on power, thermals, space, and long-term reliability.

Our partner, **Noble Machines**, is advancing a unified AI model that enables a single general-purpose robot platform to adapt across flat ground, stairs, inclines, unstable terrain, tight industrial spaces, and outdoor environments - all while maintaining stable manipulation of heavy or hazardous materials. This scalable foundation supports growth from early deployments to long-term production without slowing innovation.



What makes Noble Machines' Robot unique?



Noble Machines "Moby," is a general-purpose robot engineered for physically demanding tasks and hazardous environments, unlike competitors focused on consumer tasks or home environments.

Standing 150 cm tall with 29 DOF (excluding hands) of freedom, Moby features a rugged framework capable of lifting and transporting heavy loads up to 50 pounds (22 kg). With AI-driven Whole-Body Control, it delivers multi-terrain mobility—seamlessly navigating outdoor inclines, scaffolding, and cluttered spaces across manufacturing, mining, and energy facilities.

What truly sets Moby apart is its "AI-driven whole body control", powered by advanced edge computing, NVIDIA® Jetson Thor™. This allows Moby to dynamically adjust its posture, maintaining balance while lifting heavy objects or facing obstacles.

Moby boasts end-to-end autonomy that reduces training time from months to hours. Thanks to multi-modal learning architectures, Moby eliminates the need for complex programming. Instead, people may train Moby via natural language, physical demonstrations, and gestures. Operating for up to five hours on a single charge, Moby deploys directly into existing workspaces without costly infrastructure overhauls. Noble Machines is successfully pivoting humanoids from laboratory novelties into scalable systems, enabling customers to redefine the future of work and making work safer, more efficient, and more productive for people.

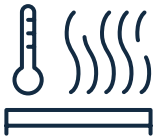
Demand for High-Power, Low-Profile Compute



System Integration Challenges



Massive Compute Demand



Strict Thermal & Power Limits



Resilient Platform & Partner

> Our alliance with ADLINK is not just a technical cooperation; it is a shared commitment to our industrial vision; ADLINK's leadership in edge computing and their industrial-grade design capabilities perfectly complement Noble Machines' fully integrated AI-Driven Whole-Body Control and autonomy. This partnership enables us to deliver truly rugged, durable, and highly intelligent robotic solutions to our heavy industry clients, making the automation of dangerous tasks a reality.
>
> *stated Wei Ding, CEO of Noble Machines.*

Noble Machines has to embed high-bandwidth vision, complex sensor fusion, and industrial control into a highly compact robotic body -- while securing the compute power necessary for real-time perception and AI control under strict thermal and power limits. Overcoming these challenges requires an embedded AI platform and an engineering partner built for operationally resilient robotics.

About Noble Machines

Noble Machines is the leader in general-purpose robots for high-payload tasks in demanding industrial environments. Noble's AI-Driven Whole-Body Control and AI Autonomy integrated stack accelerates learning of new tasks while providing the stability and intelligence required for heavy material handling in dynamic environments. Tasks completed by Noble Machines enable customers to redefine the future of work, making work safer, more efficient, and more productive for people in manufacturing, construction, logistics, energy, and oil and gas. Noble Machines was founded in 2024 and has raised seed funding backed by Up Ventures, South Park Commons, and Centre Street Partners.

The Intelligent Core, Edge AI Computing Platform Plays the Key Role

As a leading edge AI computing platform provider, ADLINK offers a wide range of product series to fulfill the diverse needs of partners.

AI Power Built to Dominate the Toughest Tasks

Noble Machines partnered with ADLINK to develop the ***RQX-71G***, a high performance embedded AI platform powered by NVIDIA® Jetson T5000™, delivering up to 2070 FP4 TFLOPS. This performance enables real-time execution of perception, motion planning, and closed-loop control, the core intelligence behind humanoid robotics.

Crucially, RQX-71G delivers exceptional performance per watt, allowing sustained AI workloads without overwhelming the robot's thermal envelope.

Furthermore, designed specifically to meet the rigorous demands of robotic applications, the ADLINK RQX-71G delivers powerful performance in an ultra-streamlined form factor. When space is at a premium inside the robot, Moby, the RQX-71G offers a highly compact footprint—measuring just 224mm x 124mm x 85mm, which is 20% smaller than its leading competitors.

To ensure continuous operation in dynamic environments, the RQX-71G is engineered with superior anti-shock and vibration resistance. It features a USB-C port secured with dual screws and JST connectors with a built-in latch mechanism. These rugged, industrial-grade design choices prevent cables from shaking loose during high-speed movements or rough transits, guaranteeing stable data transmission and uninterrupted uptime for your robotic fleet.

Compact Edge AI Platform Powered by NVIDIA® Jetson Thor™

RQX-71G

- **Extreme AI Performance:** Embedded with NVIDIA Jetson T5000/ Jetson T4000™ up to 2070 FP4 TFLOPS
- **Rich High-Speed I/O:** 1x QSFP28, USB 3.2, M.2 slots for Wi-Fi/5G/SSD, and 8x GMSL2 camera
- **I/O for Robotics Applications:** 8x GMSL2 camera, 4x CAN FD, 4x 1G for LiDAR, and 2x 100M for EtherCAT
- **Industry-Grade Design:** Designed for physical AI and vision sensing system (VSS) applications



Small Footprint. Big Endurance.

Built to Fit, Designed to Breathe

Scalable industrial humanoid robots leave little room for compromise. ADLINK's solution features a compact, space-efficient mechanical design optimized for tight installations without sacrificing serviceability or thermal performance.

System-level thermal optimization, including heatsink and airflow evaluation, ensures consistent performance even under constrained cooling conditions.

Engineered for the Long Haul

Industrial-grade components and mechanical robustness enable continuous operation in demanding environments. Long product lifecycles and stable supply ensure the platform remains viable as robotic fleets scale over time.

By leveraging ADLINK's modular, customizable platform and ODM expertise, the robotics team avoided the risks of a fully custom design while maintaining flexibility for future innovation.

From Technical Wins to Strategic Advantages

The collaboration delivered immediate and lasting results:

- **Performance tuned precisely** for industrial robotics workloads
- **Lower development risks** through proven industrial hardware
- **Faster readiness for next-generation platforms,** strengthening partner and investor confidence
- **A scalable compute foundation** ready for future robot generations in heavy industry

Your Proven Playbook for Heavy-Industry Robotics Success

ADLINK, the Preferred Partner of NVIDIA, combines its expertise with NVIDIA's market-proven experience and offers diverse product portfolios that address the various needs of physical AI applications. By building on ADLINK's Edge AI platforms, robotics developers can accelerate innovation while mitigating risks.

What sets ADLINK's Robotics solutions apart?

- High-performance, rugged AI compute with industry-leading efficiency
- Compact, robot-optimized form factors for streamlined integration
- Pre-integrated sensor fusion and time-sync designs for multi-sensor coordination
- Industrial-grade reliability engineered for harsh, real-world environments
- Deep customization and co-development capabilities tailored to complex applications
- Comprehensive local engineering support across global deployments

A broad portfolio spanning board level to system level to edge AI servers. For scalable industrial humanoid robots, industrial automation, and AI-driven machines operating at the edge, ADLINK provides the intelligence, reliability, and partnership needed to turn bold ideas into mission-ready systems.

Bring Your Robotics Vision to Life

Power what's next in scalable industrial robotics with ADLINK's DLAP-701, RQX-31G, and DLAP-211 embedded AI platforms. From rapid prototyping to full-scale deployment, our modular, rugged AI solutions provide the freedom to move faster, scale with confidence, and navigate the toughest challenges in heavy industry.

ADLINK doesn't just power your robots—we make them matter.

ADLINK Robotics Solutions

ADLINK AI Platforms Powered by NVIDIA® Jetson Thor™ & IGX Thor™



DLAP-701
Powered by
NVIDIA Jetson Thor



DLAP-711
Powered by
NVIDIA Jetson Thor/IGX Thor



RQX-71G
Powered by
NVIDIA Jetson Thor/ IGX Thor



DLAP-IGX
Powered by
NVIDIA IGX Thor

ADLINK AI Platforms Powered by NVIDIA® Jetson™



DLAP-211-Orin Nano
Powered by
NVIDIA® Jetson Nano™



DLAP-212-Orin NX
Powered by
NVIDIA® Jetson Orin™ NX
or Orin Nano™



DLAP-411-Orin
Powered by
NVIDIA® Jetson
AGX Orin™



RQX-59G
Powered by
NVIDIA® Jetson
AGX Orin™



RQX-31G
Powered by
NVIDIA® Jetson Orin™ NX
or Orin Nano™

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