GATEIN TECHNOLOGY
جيت ان تكنولوجي

PRODUCT PRESENTATION · EMBODIED AI

NERO

7-DoF Humanoid Robotic Arm

Engineered for embodied AI and humanoid robotics: a fully open, lightweight 7-DoF arm for rapid deployment in academia and R&D labs.

Presented by GateIn Technology · Exclusive AgileX partner in Egypt

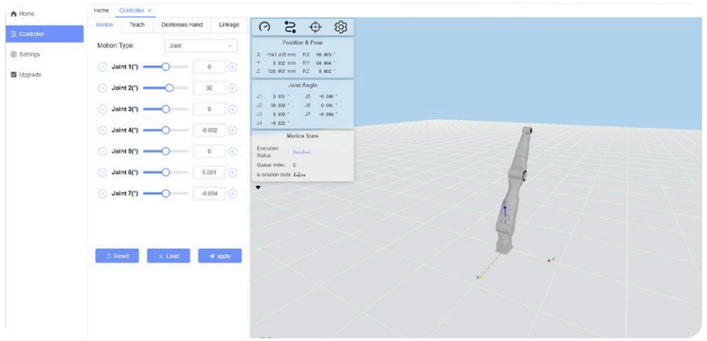


Built for embodied AI



Performance & precision

7-DOF humanoid structure with self-developed motors: 4.8 kg body, 3 kg payload, ±0.1 mm repeatability.



Full-stack & flexible deployment

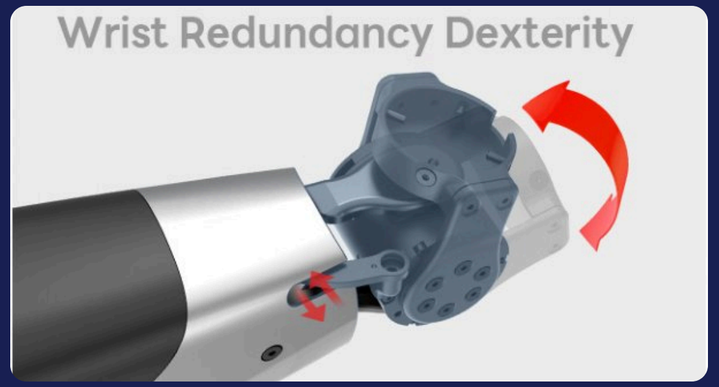
CAN/HTTP/TCP; drag-and-teach, offline trajectory, API; Python SDK, ROS1/ROS2; integrates with AgileX chassis.



Innovation platform

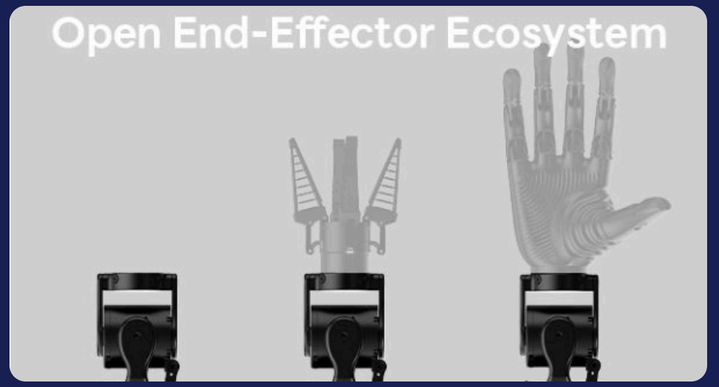
Embodied AI, humanoid robots, imitation/reinforcement learning and precision interaction, from perception to action.

Key advantages



Wrist redundancy dexterity

7-DoF achieves dexterous, human-like wrist performance.



Open end-effector ecosystem

Modular interface for grippers, dexterous hands and more.



Embodied learning

Delivers high-quality physical interaction datasets.

NERO Parameter configuration

Parameter	NERO
DoF · payload · weight	7 · 3 kg · 4.8 kg
Repeatability · reach	±0.1 mm · 580 mm
Input voltage · consumption	DC 24 V · max ≤150 W, average ≤60 W
Material · controller	Aluminium & plastic housing · integrated
Communication · control	CAN / HTTP / TCP · drag teaching, offline trajectory, API, PC
External interface · base	Power × 1, CAN × 1, EtherCAT × 1 · 70 × 70 mm, M5 × 4
Environment · noise · installation	0–50 °C, 25–85% RH · <60 dB · table / side / upside-down
Joint max speed	J1–J3 180°/s · J4–J7 225°/s
Joint range	J1 ±157°, J2 -15–190°, J3 ±160°, J4 -60–125°, J5 ±160°, J6 -43–58°, J7 ±90°

GateIn One accountable partner

We don’t just ship the NERO. GateIn designs, supplies, installs, integrates and supports AgileX solutions for universities, schools, government and industry, from the first plan to long-term support.

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Let’s plan your NERO deployment

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