GATEIN TECHNOLOGY
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PRODUCT PRESENTATION · EMBODIED AI RESEARCH

Walker Tienkung DEX

More Agile · More Open

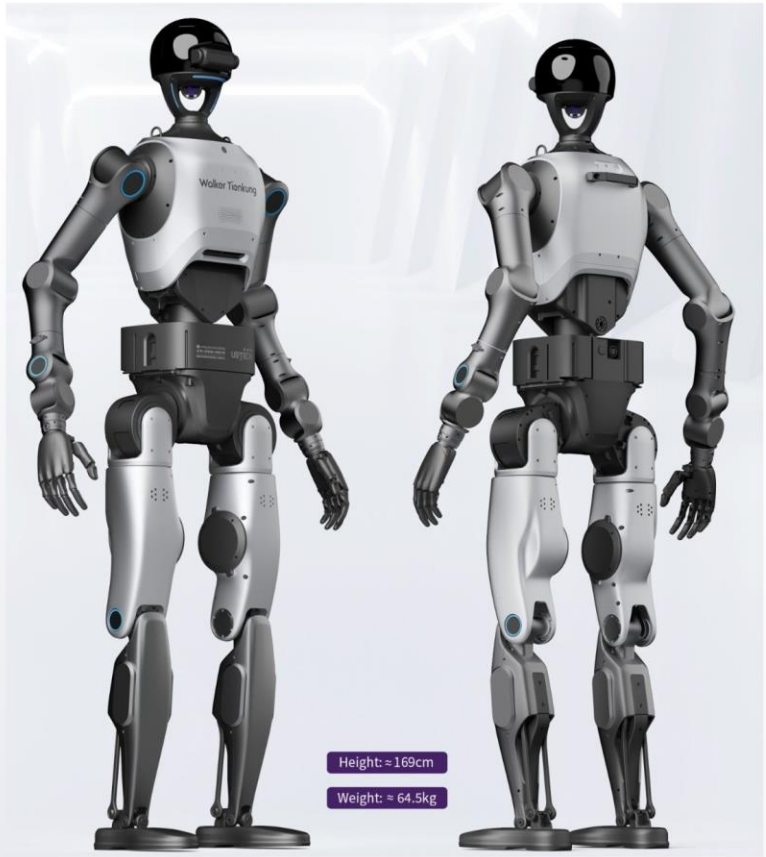
A full-size humanoid robot for embodied AI research: more dynamic, more advanced and more open.

Presented by GateIn Technology · Exclusive UBTECH partner in Egypt



More dynamic

Redefining the performance benchmark for highly dynamic humanoid robots.



Ultimate human-like agility

Full-size 169 cm height with a 3-DOF waist for whole-body coordinated movement.

Powerful, explosive motion

400 N·m peak-torque joints for running and getting up.

Precision and reliability

High-precision transmission: accurate, quiet and sustained movement.

More advanced & more open

The brain on the edge

2070 TOPS so large models “think in real time” on the robot.

Multi-modal perception

RGBD cameras, LiDAR and AI voice kit build a deep 3D understanding.

Modular expansion

Force sensing, vision and dexterous hands for more complex tasks.

Open source, deeply accessible

From low-level motor control to open-source models (Thinker, Wow).

Ecosystem empowerment

20+ real-robot scenario datasets, cloud simulation and an AI Copilot.

Modular, flexible adaptation

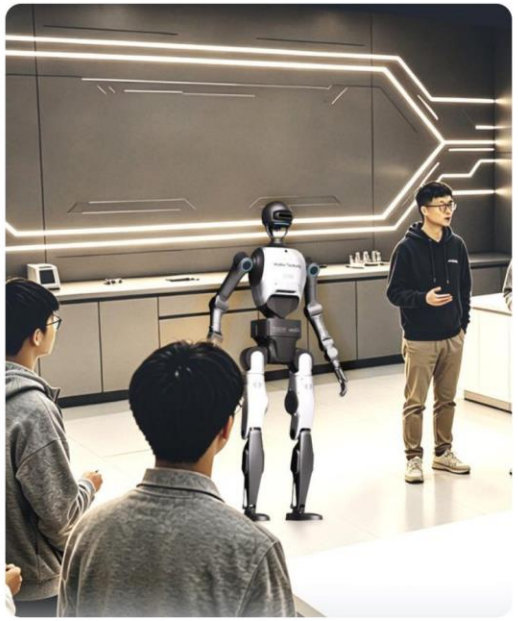
5+ plug-and-play accessories for security, logistics and guidance.

Walker Tienkung DEX Product parameters

Parameter	Walker Tienkung DEX
Height · net weight	≈169 cm · ≈64.5 kg
DOF	31 total · waist 3 · head/neck 2 · arm 7 (shoulder 3, elbow 1, wrist 3) · leg 6 (hip 3, knee 1, ankle 2)
Perception	Head RGBD + abdominal RGBD · LiDAR × 1 · high-precision IMU × 2
AI voice kit	Linear mic × 4, speaker, sound card, 720P monocular camera
Battery · runtime	15 Ah + 3 Ah, hot-swappable · ≥2 h
Onboard computer	Up to 4.8 GHz · 32 GB memory · 512 GB SSD
AI compute board	NVIDIA Jetson AGX Thor × 1, 2070 TOPS
Openness · middleware	Whole-body motor control and sensor interfaces · ROS2-compatible middleware
Comms	Full-body CAN/EtherCAT · Wi-Fi 6E, Bluetooth, Ethernet, 5G (mainland China only)
Optional	Dexterous hand × 2, 6-axis force sensor kit, OCC vision kit, outdoor satellite navigation kit

Heat dissipation: continuous working without overheating. Supports dancing, push-ups, navigation, lip-reading, standing up and more. Standard: robot body, controller, manual, power adapter, SDK, URDF.

One robot, multiple scenarios



Education & research



Guidance & reception



Industrial logistics



Security inspection & patrol

Basic accessories package: flight case, safety rope, display rack.

GateIn One accountable partner

We don't just ship the Walker Tienkung DEX. GateIn designs, supplies, installs, integrates and supports UBTECH solutions for universities, schools, government and industry, from the first plan to long-term support.

+120
ROBOTS SUPPLIED IN EGYPT
Industrial, service and educational

91
LABORATORIES
Across 45 institutions

+30
STRATEGIC & GLOBAL PARTNERS

5
YEARS OF DELIVERY
Since 2021

Design | Sourcing | Installation | Integration | Training | Long-term Support

An integrator, not a vendor.

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Let’s plan your Walker Tienkung DEX deployment

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