GATEIN TECHNOLOGY
جيت ان تكنولوجي

PRODUCT PRESENTATION · ROS EDUCATION

LIMO

ROS-Based Multi-modal Mobile Robot for Education & Research

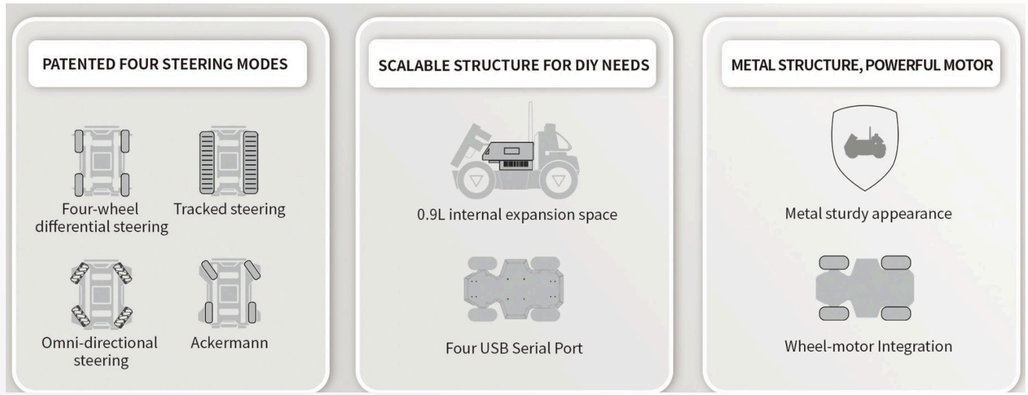
Autonomous navigation, SLAM & V-SLAM and obstacle detection, with ROS, ROS2 and Gazebo support.

Presented by GateIn Technology · Exclusive AgileX partner in Egypt



gateintech.com · Benchmark Tomorrow's Tech.

Patented four steering modes



Four steering modes

Four-wheel differential, tracked, omni-directional (Mecanum) and Ackermann steering.

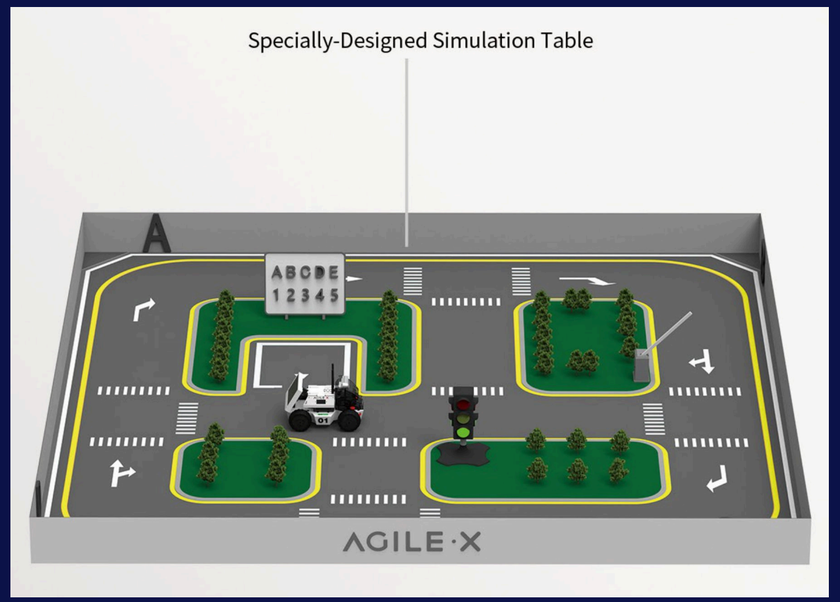
Scalable structure for DIY

0.9 L internal expansion space and four USB serial ports.

Metal structure, powerful motor

Sturdy metal appearance with wheel-motor integration.

Easier to develop with the simulation table



Simulation table

SLAM & V-SLAM, autonomous traffic-light recognition, reversing & warehousing, navigation & detection.

AgileX open-source community

Built-in ROS & ROS2 packages, programming demos, Gazebo simulations, robot development manual.

Hardware

Touch screen, trumpet, Wi-Fi, infrared camera, NVIDIA Jetson Nano, one-key switch, LiDAR.

LIMO Product specification



Parameter	LIMO
Dimensions · weight · climbing	322 × 215 × 247 mm · 4.2 kg · 25°
Power interface	DC (5.5 × 2.1 mm)
Work time · standby	40 min · 2 h
LiDAR · camera	EAI X2L · stereo camera
Industrial PC	NVIDIA Jetson Nano (4 GB)
Voice · trumpet · monitor	iFLYTEK voice / Google Assistant · L/R channels (2 × 2 W) · 7-inch 1024 × 600 touch screen
Software · protocol	ROS1 / ROS2 open-source · UART
Control · wheels included	App · off-road wheel × 4, Mecanum wheel × 4, track × 2

GateIn One accountable partner

We don’t just ship the LIMO. GateIn designs, supplies, installs, integrates and supports AgileX 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

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Let’s plan your LIMO deployment

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