

Autowise Roboard-X

Designed for Autonomous Driving
And Cross-Scenario Use

 Efficient and Stable

 Highly Open

 Strong Performance





Introduction Autowise Roboard-X

Autonomous platform Autowise Roboard-X is independently developed by Autowise.ai. This product can realize multi-scene upper X transformation, and adopt cab-less design. At present, AW Roboard-X of Autowise.ai has realized the X of passenger vehicle (AW Roboard-Space), logistics vehicle (AW Roboard-Van) and sweeper (AW Roboard-Sweeper). This three autonomous models of passenger vehicle, logistics vehicle and sweeper have been implemented for mass production, which is practical and technological. Roboard-X can meet the requirements of different scenarios in terms of hardware and software architecture design, fully support efficient reuse in different scenarios.

Applicable Scenes

Applicable for carrying passengers, logistics and sweeping, including road, square, park, wharf, airport and other full-scene applications.

Features

Efficient and Stable

The perception system adopts 6L4R11V modular combination scheme. The LiDARs and millimeter wave radars realize 360° coverage.

The wire control system, including hardware and electrical components, basically reaches Automotive Grade. The system adopts Dual Redundant, making it fast response and high accuracy.

The computing module switches to Automotive Grade SoC, dual-Orin, and supports L4 commercial standards, with AI performance over 600TOPs, redundant and stable.

Highly Open

We provide 3D digital model of Roboard-X, so that customers can design the upper X according to their own needs, and quickly develop their own vehicles.

We also provide advanced interface to realize the secondary development of motion control.

Strong Performance

We provide customized service for battery size.

Roboard-X has a mature high-voltage platform of 400V, with long battery life of 6 hours, super charge 2 hours, standard charge 8 hours.

Double front wheel steering redundancy design, high precision steering less than 1 degree, and high steering response less than 100ms; The maximum driving speed is 40km/h, and its gradeability is 20 degrees.

Redundant design of four-wheel braking system, braking response time is less than 200ms, and the maximum voltage setup time is less than 300ms.





Technical Specifications

	AW Roboard-Space	AW Roboard-Van	AW Roboard-Sweeper
Fresh water tank capacity	/	/	400 l
Waste hopper capacity	/	/	650 l
Sweeping power	/	/	400 W*2
Suction power	/	/	5,000 W
Maximum Driving Speed	40 km/h	40 km/h	30 km/h
Number of seats	2	/	/
Passenger capacity	4-6	/	/
Empty weigh	2,000 kg	2,000 kg	3,000 kg
Gross vehicle weight	3,000 kg	3,000 kg	4,500 kg
Dimensions (L*W*H/mm)	4,050*1,655*2,350 mm	4,050*1,655*2,350 mm	4,750*1,655*2,350 mm
Applications	Passenger vehicle	Logistics vehicle	Sweeper