



General-Purpose Embodied Robot Platform

Poseidon Hot-Swap Edition

Product Specification Sheet

- Embodied Robot Development Platform
- **Flexible Adaptation | Strong Scalability**
- **Powerful Optional Features**
- [\[Learn More →\]](#)



Please read the specification sheet carefully before use.

Date: August 7, 2026

Version: V1.2

Product Core Technical Specifications		
Product Name	Poseidon M8D	Poseidon – Hot-Swap Edition
Basic Parameters	Dimensions (L×W×H)	690mm × 600mm × 316mm
	Turning Diameter	860mm
	Basic Functions	Forward, reverse, in-place rotation, lateral movement, oblique movement
	Ground Clearance	50mm
	Motor Type	Servo in-wheel motors ×4, rotary joint modules ×4
	Self-Weight	80kg
	Suspension Type	Front-wheel linked suspension
	Rated Payload	150kg (Max. payload 200kg)
Sensor Configuration	Navigation Method	2D LiDAR
	Laser Detection	LiDAR ×2
	Visual Obstacle Avoidance	Depth cameras ×2
	Ultrasonic Obstacle Avoidance	8 sensors total (2 each on front, rear, left, and right)
Motion Performance	Rated Acceleration	1 m/s ²
	Max. Linear Acceleration	3 m/s ²
	Rated Travel Speed	1.0 m/s
	Max. Linear Speed	1.5 m/s
	Rated Angular Velocity	1 rad/s
	Max. Angular Acceleration	π rad/s ²
	Climbing Capability	10°
	Gap Crossing Width	40mm
	Step Climbing Height	40mm
	Braking Method	Electronic braking
	Stopping Angle Accuracy	±1°
	Stopping Position Accuracy	±20mm
Battery Performance	Battery Type	Lithium Iron Phosphate (LiFePO ₄)
	Rated Voltage	48V
	Capacity	15Ah × 2 (dual battery)
	Power Supply Capability	Rated 30A; continuous max. 50A; instantaneous peak 110A
	Charge/Discharge Cycle Life	2,000 cycles

	Runtime at Full Payload	>8 hours	
	Charging Time (0-80%)	<2 hours	
	Charging Method	Hot-swappable (battery swap), Manual charger	
External Interfaces	Communication Interfaces	RJ45 (Ethernet)	
		Wi-Fi / 4G (via Wi-Fi router)	
		Others: RS485, CAN (reserved interfaces and connectors)	
		J2	Poseidon_031 Poseidon_031 Poseidon_031 Poseidon_031 Poseidon_031 Poseidon_031
	Power Output Interface	XT60 (female) 12AWG – 48V 30A (rated)	
Operating Environment	Environment	Indoor use only; avoid dust, water, oil mist, or other contaminants. Keep away from flammable, explosive, or corrosive gases and liquids.	
	Humidity	10-95% RH, non-condensing	
	Altitude	Below 2,000m	
	Floor Condition	Keep floor clean; avoid dust, debris, oil, or liquids.	

Product Dimensional Drawing(mm):

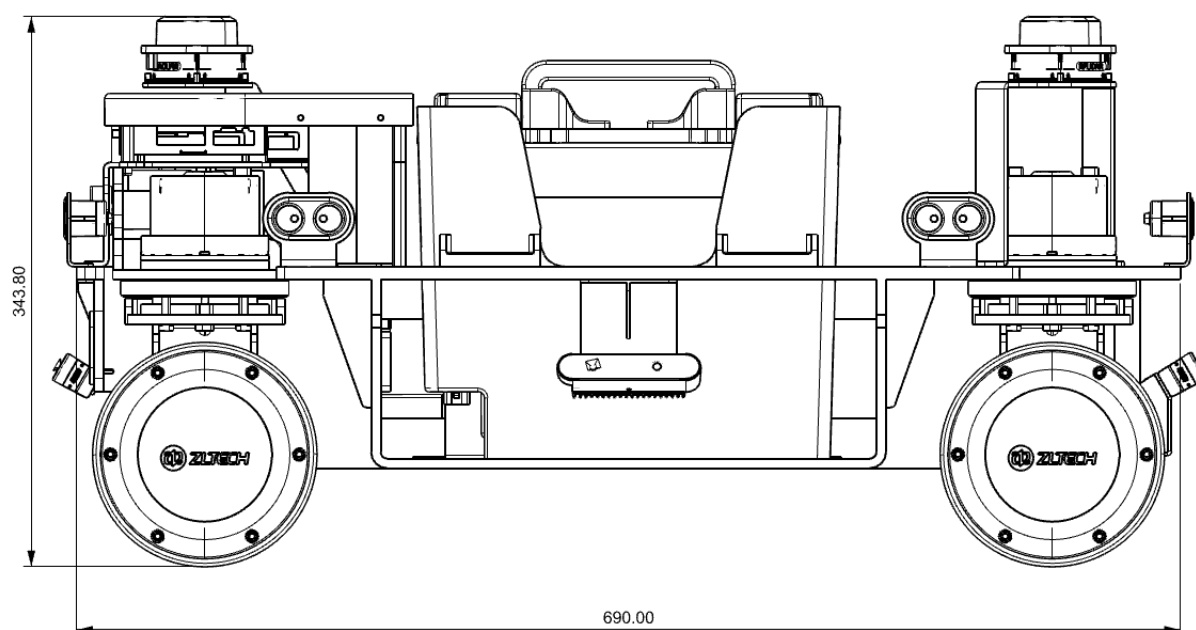


Fig. 1

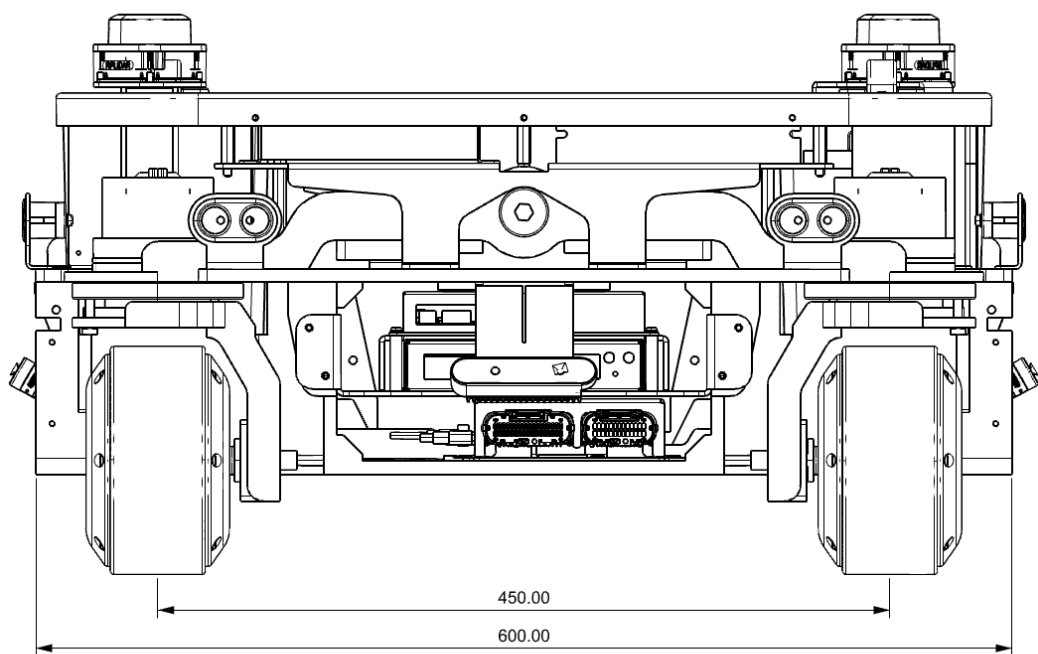


Fig. 2

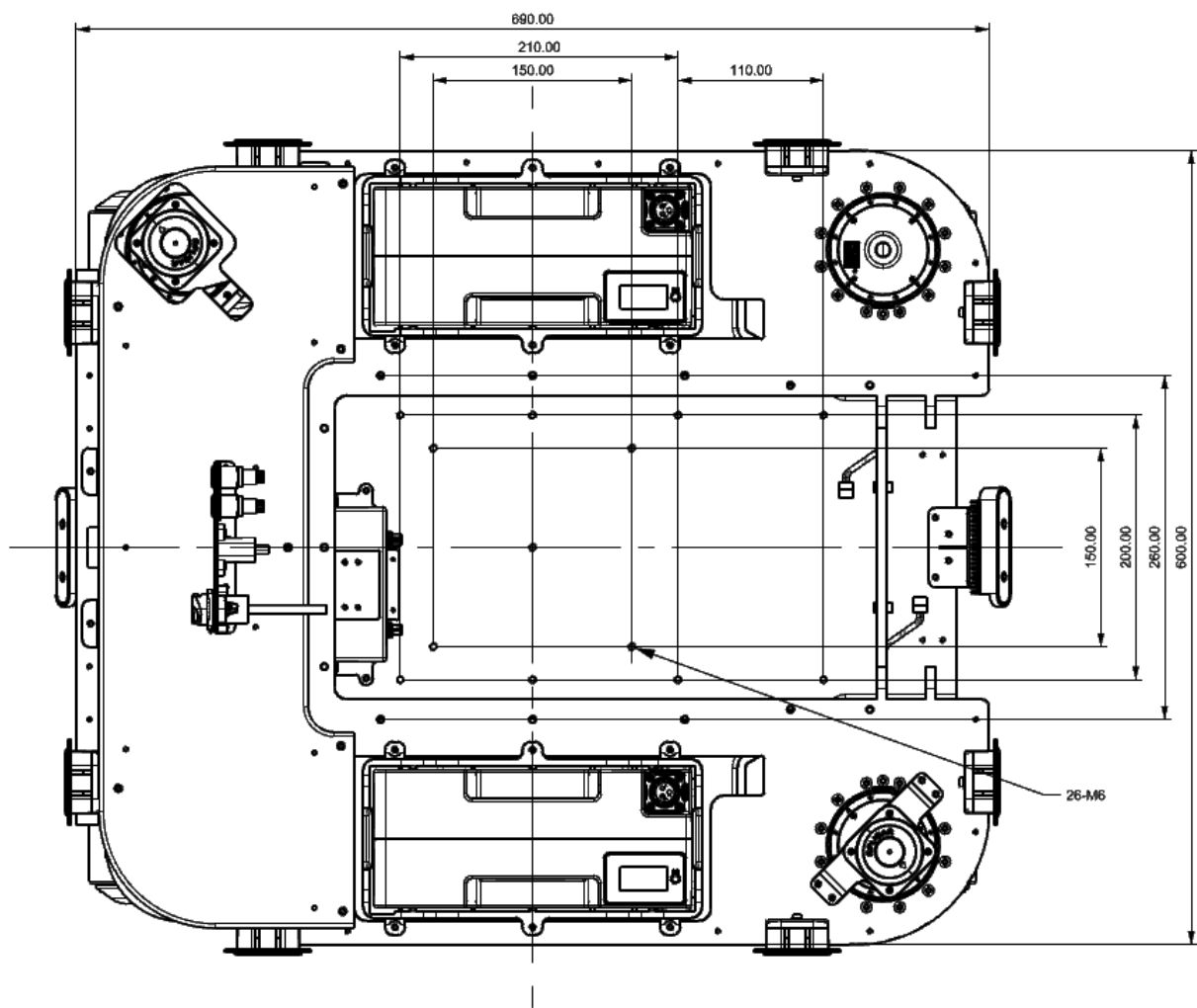


Fig. 3