

HUSKY™ AMP

Autonomous Mobile Platform



The Fastest Path to Building Autonomous Robotic Solutions

Husky AMP is the fastest way for robotics developers to build and deploy outdoor autonomous solutions — no robotics engineering degree required. With built-in sensors, proven autonomy software, and a rugged, extensible mobile base, Husky AMP delivers everything you need to develop, test, and scale your robotics application quickly and confidently.



100 kg (220 lb)
Max Payload



12-Hour
Runtime



IP54
Rated



Autonomous &
Teleop Modes



Documented
ROS API



HIGHLIGHTS

Get Started Quickly

Jumpstart development with a ready-to-deploy platform designed for fast prototyping and real-world applications.

Outdoor Autonomy

GNSS-based navigation, built-in sensors, and auto docking let you operate confidently and continuously in outdoor environments.

Intuitive Mission Control

Plan routes, monitor progress, and take control—all through a user-friendly web interface.

Flexible Payload Integration

Mount and power the sensors, payloads, and accessories your application demands.

Seamless Software Integration

Use the documented ROS API to connect your own applications and workflows.

Explore Husky AMP



Technical Specifications

SIZE AND WEIGHT

Dimensions	990 x 698 x 1074 mm (38.9 x 27.5 x 42 in)
Weight¹	98.5 kg (217.4 lbs)
Ground Clearance	130 mm (5 in)

SPEED AND PERFORMANCE

Max. Payload¹	81 kg (178 lbs)
Terrain Payload¹	31.5 kg (69.4 lbs)
Max. Speed	2 m/s (4.4 mph)
Max. Climb Grade	30°
Drivetrain	4x Brushless Motors, Skid Steer

ENVIRONMENTAL

IP Rating	IP54
Operating Temp	-20 °C to +40 °C (-4°F to 104 °F)
Storage Temp	-20 °C to +60 °C (5 °F to 140 °F)

COMMUNICATION AND CONNECTIVITY

Wireless	Cellular 5G, Wi-Fi 6
Interfaces	Ethernet, USB
Edge Computing	Standard: i3-13100TE Performance: i7-13700TE GPU Optional

SAFETY AND COMPLIANCE

Standards	FCC Part 15 Subpart B / ICES-003 FCC Part 18 / ICES-002 ISO 12100 Risk Assessment
Safety	4x E-Stop Buttons PLC Breakout

BATTERY AND POWER SYSTEM

	Standard	Upgraded	Extended
Battery	40 Ah @ 25.6 V	80 Ah @ 25.6 V	120 Ah @ 25.6 V
Charge Time	3-4 hr	7-8 hr	8-10 hr
Avg. Run Time	4 hr	8 hr	12 hr
Chemistry	LiFePO4		
Upgrades	Fast Charger, Wireless Charge & Auto Docking		

AUTONOMY & NAVIGATION SENSORS

Obstacle Detection	1x Seyond Robin W 3D LiDAR, 120°x70° FOV
Localization & Navigation	1x Movella Xsens Vision Navigator, Dual RTK GNSS, IMU, Vision Fused Navigation
Teleoperation	2x Luxonis OAK-D Pro Cameras
3D Mapping	1x Ouster OS1/OS0 Series 3D LiDAR (Optional)

OUTDOORNAV AUTONOMY SOFTWARE

Mission Control	Web-based UI for planning and monitoring missions
Autonomy Features	Path planning, obstacle avoidance, GNSS waypoint navigation
API Support	ROS 2 API for autonomy and robot control/telemetry
Modes	Autonomous, Teleoperation
Docking	Auto Docking, Return to Dock

DEVELOPER & INTEGRATION FEATURES

API & SDK	ROS 2, Python, C++ Support
Payload Integration	Aluminum extrusion rails for payload mounting
Payload Area (LxH)	958 x 340 mm
Power Breakouts	8
User Power	12 V @ 10 A, 24 V @ 5 A, VBAT @ 5 A, VBAT @ 40 A

Example Configurations



MANIPULATOR

- Environmental Sampling
- Infrastructure Maintenance
- Bin Picking & Sorting

OBSERVER

- Remote Inspection
- Data Collection
- Security & Surveillance



TRANSPORTER

- Material Transport in Industrial Environments
- Parts Delivery



Generation ROBOTS

Brand of **NGX** ROBOTICS



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