



A POWERFUL INTEGRATED SOLUTION

Our founders developed the new architecture RMP at Segway. Now Stanley Innovation is taking it to the next level by offering customized integrated solutions for the new Segway® RMP.

RMP110 HIGHLIGHTS

The RMP110 is a passively stable, compact platform with all the important features that RMP offers. It is designed for customers that don't require the range, payload, and terrain capabilities of our other platforms. It is perfect for indoor research or commercial applications on a budget.

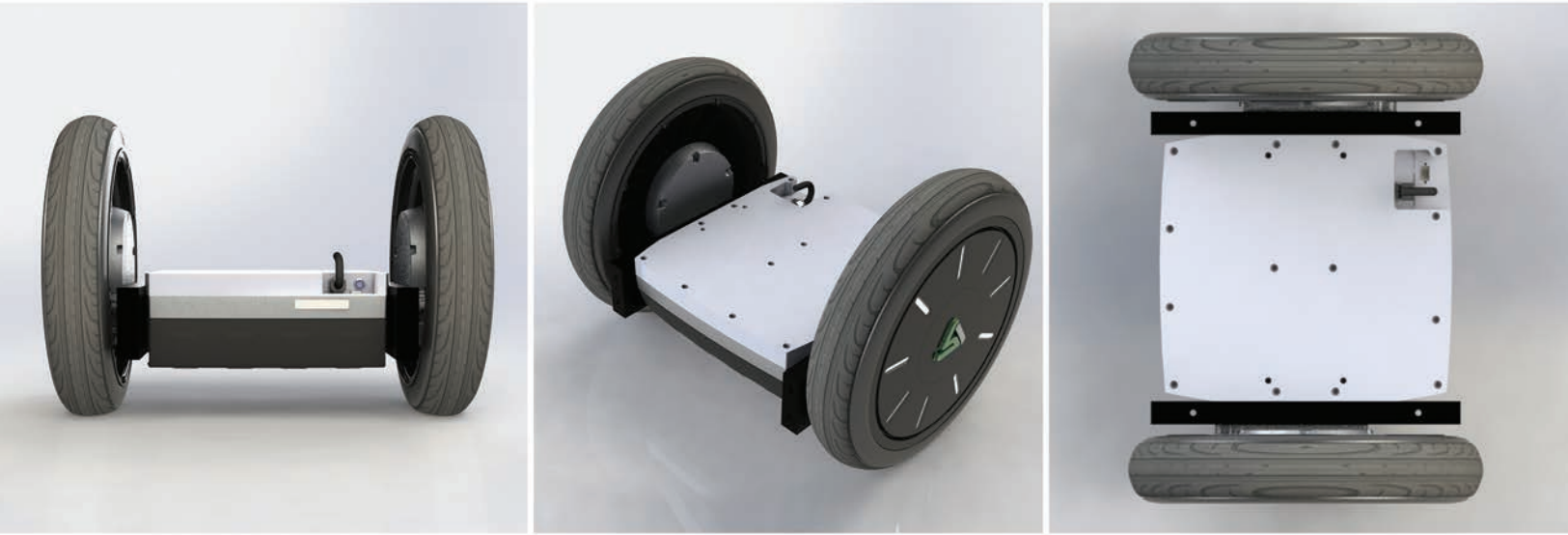
- Built with the high-power, long range, proven and reliable Segway® propulsion technology
- Passive stability via the third wheel simplifies operation and increases confidence around bystanders
- Low cost entry level system with the same interface for easy migration between platforms
- ROS Drivers, API's, examples, simulation and advanced embedded estimation algorithms available exclusively with Stanley Innovation's Mobility Engine™ software



STANLEY INNOVATION KEY PARTNERS



SPECIFICATION OVERVIEW



ROBOTIC MOBILITY PLATFORM

| | | | | | |
|--------------------|--------------------|-----------------------------|------------|-----------------------------------|---------------|
| OVERALL DIMENSIONS | 625 x 637 x 481 mm | BATTERY CHEMISTRY | LiFePO4 | MAX SPEED | 5 m/s |
| PLATFORM WEIGHT | 41 kg (92 lbs) | RUN TIME | up to 24 h | MAX SLOPE* | 5° |
| CLEARANCE | 93 mm (3.7 in) | CHARGE TIME** | 3 h or 8 h | PEAK TORQUE <i>(per wheel)</i> | 50 N-m |
| MAX PAYLOAD | 45 kg (100 lb) | PROPULSION BATTERY CAPACITY | 380 Wh | MAX RANGE | 16 km (10 mi) |
| COMMUNICATION | Ethernet, USB | AUXILIARY BATTERY CAPACITY | 380 Wh | INGRESS PROTECTION | IP65 |

*Maximum slope with maximum payload. Recommended slope is 5° with continuous maximum payload. See the User Manual given on our Resources Page for more details.

**Charger or Fast Charger sold separately

PLATFORM SENSOR PACKAGES

| RMP V3 (base platform) | RMP V3 NAVIGATOR™ | RMP V3 NAVIGATOR ELITE™ |
|--|---|---|
| <p>The RMP V3 platform comes with Stanley Innovation's Mobility Engine™ designed specifically for ROS integration with an on-board PC. Customers can access the Segway RMP V3 ROS stack online to install and configure it on their own hardware for their own sensors. The platform must have a PC and sensor set integrated and configured by the end customer before using any of the navigation demos.</p> | <p>The RMP Navigator™ package includes sensors to perform 2D navigation in structured indoor environments. The navigation demos come with fully tuned mapping, global localization and trajectory planning. ROS modules come tuned specifically for Segway RMP V3 vehicle dynamics and performance.</p> | <p>The RMP Navigator Elite™ package enables 3D navigation in unstructured indoor and outdoor environments. Includes high performance 3D laser, machine vision, GPS and upgraded PC for maximum performance. ROS modules come tuned specifically for Segway RMP V3 vehicle dynamics and performance.</p> |

CONTACT US TO LEARN MORE

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