

MOBILE MANIPULATOR ROBOT (MMR)

# RB-SUMMIT

MOBILE MANIPULATOR  
FOR **RESEARCH** & **DEVELOPMENT**

 RESEARCH & DEVELOPMENT

 AGRICULTURE

 CONSTRUCTION

 PICK & PLACE



# RB-SUMMIT<sup>+</sup>

## MOBILE MANIPULATOR RESISTANT AND VERSATILE

**RB-SUMMIT<sup>+</sup>** is a highly mobile, all-terrain modular base that can operate in indoor environments, but especially outdoors. Therefore, this MMR is suitable for automating tasks of different nature in sectors such as R&D, agriculture or construction.

### INCLUDED COMPONENTS

- CPU Intel i7
- 2D Laser
- RGBD Camera
- 5G Router
- IMU
- Battery 48VDC@15Ah
- Kinova Arm Gen2 - 6DOF
- Charging station

### OPTIONAL COMPONENTS

- GPS
- Base station
- AI+Vision Package
- 3D Localization and Navigation Package
- Kinova Arm Gen2 - 7DOF
- Kinova Arm Gen3 - 6DOF
- Kinova Arm Gen3 - 7DOF

## MECHANICAL

Dimensions	<b>720 x 614 x 767 mm</b>
Weight	<b>Platform: 65 kg Arm: 4,5 kg</b>
Payload	<b>Platform: 45 kg Arm: 2,6 kg</b>
Speed	<b>3 m/s</b>
Environment	<b>Indoor / Outdoor</b>
Enclosure class	<b>IP40</b>
Autonomy	<b>Up to 5 h</b>
Traction motors	<b>4 x 500 W with brake</b>
Kinematics	<b>Skid steering</b>
Localization system	<b>SLAM</b>
Temperature range	<b>0°C to + 50°C</b>
Max. slope	<b>80 %</b>

## CONTROL

Controller	<b>ROS 2 Architecture</b>
Communication	<b>WiFi 802.11 b/g/n/ac Bluetooth 4.0</b>
Connectivity	<b>USB x1 Ethernet x1 DC Power Output</b>

## BLUEPRINTS

