

# TIA GO<sup>®</sup> BASE

## TECHNICAL SPECIFICATIONS

Simulation model available at:  
[wiki.ros.org/Robots/PMB-2](http://wiki.ros.org/Robots/PMB-2)

### GENERAL FEATURES

<b>Payload</b>	100 kg
<b>Dimensions</b>	54 cm diameter / 30 cm height
<b>Max. speed</b>	1,5 m/s
<b>Traversable gap / step</b>	150 mm
<b>Motorized wheels</b>	2
<b>Caster wheels</b>	4
<b>Shock absorber</b>	2

### USER PANEL

<b>LEDs</b>	4 individual
<b>Audio</b>	1x 5 W audio speaker
<b>Expansion</b>	10x GPIO (5x IN / 5x OUT) / additional emergency stop
<b>Power</b>	Battery / +12V/5A / +5V/5A

### CONNECTIVITY

<b>Wi-Fi</b>	802.11 a/b/g/n/ac
<b>Bluetooth</b>	Smart 4.0 Smart Ready
<b>Ethernet</b>	2x Gigabit
<b>USB</b>	2x USB3 / 4x USB2

### COMPUTER

<b>CPU</b>	Intel i5
<b>SSD</b>	256 GB

### ELECTRICAL FEATURES

<b>Battery</b>	1x 36 V 20 Ah Li-Ion
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### INTEGRATED

Laser	Hokuyo URG-04LX-UG01
IMU	6 DoF
Differential platform	✓
Speaker	✓
User panel	✓
Indication lights	✓
Power connector	✓
On/Off button	✓
Emergency stop	✓
Electric switch	✓
Power charger	✓
Tactile control display	✓
Ubuntu LTS + ROS	✓
Navigation software	✓
Sonars	✓

### OPTIONALS

CPU	i7 Haswell
RAM	16 GB
SSD	512 GB
RGB on top	Orbbec Astra
Additional battery	36V 20Ah Li-Ion
Laser	Sick TiM561 (10m), TiM 571 (25m)
2x channel CAN Board	✓
Dock Station	✓

