

TIA GO[®] BASE

TECHNICAL SPECIFICATIONS

Simulation model available at:
wiki.ros.org/Robots/PMB-2

GENERAL FEATURES

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

USER PANEL

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

CONNECTIVITY

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

COMPUTER

CPU	Intel i5
SSD	256 GB

ELECTRICAL FEATURES

Battery	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	✓

