

PMB-2[®]

TECHNICAL SPECIFICATIONS

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

GENERAL FEATURES

| | |
|------------------------|-------------------------------|
| Payload | 50 Kg |
| Dimensions | 54 cm diameter / 30 cm height |
| Max. Speed | 1 m/s |
| Traversable gap / step | 150 mm |
| Tractor Wheels | 2 |
| Caster Wheels | 4 |
| Shock Absorber | 2 |

USER PANEL

| | |
|-----------|---|
| LEDs | 4 individual |
| Audio | 1x audio speaker |
| Expansion | 10x GPIO (5x IN / 5x OUT) / additional emergency stop |
| 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 | i5 Haswell |
| Hard Disk SSD | 60 GB |

ELECTRICAL FEATURES

| | |
|---------|-------------------|
| Battery | 36 V 20 Ah Li-Ion |
|---------|-------------------|



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INTEGRATED

| | |
|-------------------------|---------------------|
| Laser | Hokuyo URG-04LX-UG1 |
| IMU | 6 DoF |
| Differential Platform | ✓ |
| Speaker | ✓ |
| User Panel | ✓ |
| Indication lights | ✓ |
| Power connector | ✓ |
| On/Off Button | ✓ |
| Emergency stop | ✓ |
| Electric Key | ✓ |
| Power charger | ✓ |
| Tactile Control Display | ✓ |
| Ubuntu LTS + ROS | ✓ |
| Navigation Software | ✓ |

OPTIONALS

| | |
|--------------------|------------------------------|
| CPU | i7 Haswell |
| Hard Disk SSD | 120 or 256 GB |
| Microphones | 2 or 4 |
| RGB on top | Xtion PRO Live, Orbbec Astra |
| Additional Battery | 36V 20Ah Li-Ion |
| Laser | Sick TiM561, TiM 571 |
| 2xCAN Board | ✓ |
| Sonars | ✓ |

