

## TURTLEBOT2

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TURTLEBOT2 IS AN OPEN  
ROBOTICS PLATFORM DESIGNED  
FOR EDUCATION AND RESEARCH  
ON STATE OF ART ROBOTICS

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## HARDWARE SPECIFICATIONS

Maximum translational velocity	65 cm/s
Maximum rotational velocity	3.14 rad/s
Maximum payload	5 kg (hard floor), 4 kg (carpet)
Size (L x W x H)	354 x 354 x 420 mm
Weight (+ SBC + Battery + Sensors)	6.3 kg
Gyro	factory calibrated, 1 axis (100 deg/s)
Odometry	25718.16 ticks/revolution
Bumpers	left, centre, right
Cliff sensors	yes
Wheel drop sensor	yes
Power connectors	5 V @ 1 A, 12 V @ 1.5 A, 12 V @ 5 A, 19 V @ 1 A
Pins	3.3 V @ 1 A, 5 @ 1 A, 4 x analog in, 4 x digital in, 4 x digital out
Programmable audio, LEDs and touch buttons	yes
Battery	Lithium Ion 2200 mAh or 4400 mAh

## SOFTWARE

Kobuki drivers for ROS and non-ROS and for Linux and Windows  
Kobuki and Turtlebot simulator (Gazebo)  
Yujin Robot Kobuki and Turtlebot apps