## The r-one Sensors and Specifications

IR Beacon for Global Localization

Integrated SD card for Data Logging

2.4 GHz Radio 2 MB/s Data Rate

4 Visible Light Sensors

**USB Serial/Charging Port** 



8 IR Transmitters 8 IR Receivers for Communication and Localization

IR Obstacle Detection

15 LEDs in Red, Green, and Blue

3 User Mode Buttons, Power System with Airplane Mode

3 Chassis Components, 2 Circuit Boards, 12 Total Screws!

3-Axis Gyro and 3D Accelerometer

MIDI Audio Playback

Omnidirectional Bump Sensor



Quadrature Encoders: 62.5 µm/tick

Max Speed: 300 mm/s 5 Hour Running Time

50MHz ARM Cortex-M3 256 KB Flash, 64 KB RAM

110 mm Diameter 230 grams Weight