Texas Instruments Robotics System Learning Kits (TI-RSLK)

ADVANCED ROBOTIC KIT (Maze Edition)

The TI-RSLK Advanced Robotic Kit includes:

- SimpleLink™ MSP432P401R MCU LaunchPad Development Kit 0
- Romi Red chassis kit with motors and wheels 0
- Motor driver and power distribution board includes TI DRV8838 motor driver 0
- QTR-8A Reflectance sensor array with 8 IR LED/phototransistor 0 used as a proximity or reflectance sensor
- 6 Bump switches for obstacle detection 0
- **Rechargeable batteries** 0
- SimpleLink[™] Bluetooth[®] low energy CC2650 Module BoosterPack[™] Plug-in Module 0
- SimpleLink™ Wi-Fi® CC3120 Wireless Network Processor BoosterPack™ Plug-In Module 0
- Sharp GP2Y0A21YK0F Analog Distance sensor used for distance sensing and processing 0
- ROMI encoder pair kit for measuring speed of the motors 0
- Wires, cables, passives and all mechanical components to build the robot 0
- Companion learning modules and full curriculum available at www.ti.com/rslk 0



Motor driver and

Power distribution board



Line IR

Romi

Chassis

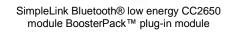




SimpleLink™ MSP432P401R MCU

Bump Switches

Wires





Distance sensor



+ ~50 other mechanical & electronic components

Rechargeable **Batteries**

SimpleLink Wi-Fi® CC3120 wireless network processor BoosterPack plug-in module



Romi encoder Tachometer

