

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



SimpleLink™
MSP432P401R MCU



Line IR



Bump Switches



SimpleLink Bluetooth® low energy CC2650
module BoosterPack™ plug-in module



Motor driver and
Power distribution board



Romi
Chassis



Wires



Distance
sensor



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



Romi encoder
Tachometer



Rechargeable
Batteries

+ ~50 other mechanical
& electronic
components