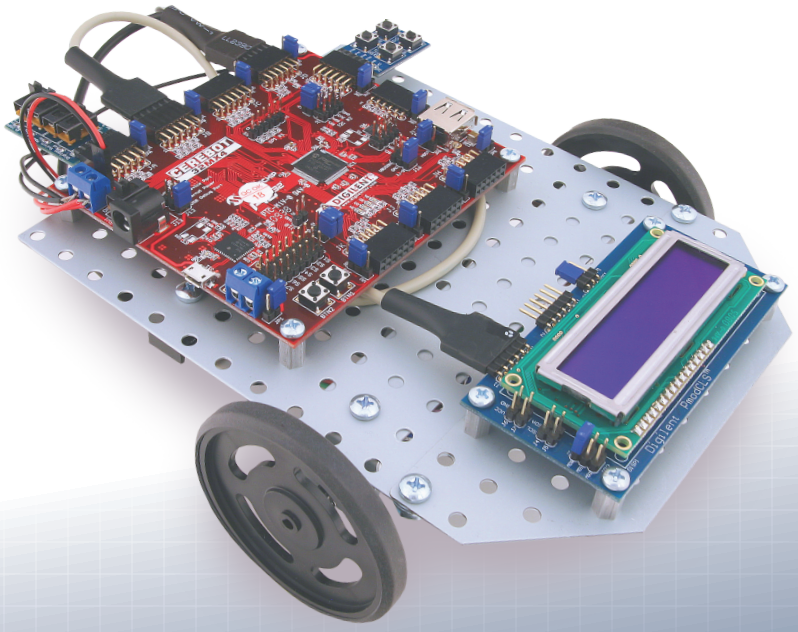


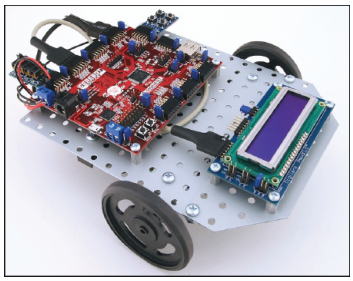
DIGILENT®
BEYOND THEORY

RDK
Robotic Development Kits

Digilent's new line of Robotic Development Kits provide the perfect starting point for those new to robotics, but have the power to be used for advanced designs and applications as well. Each kit pairs our powerful Cerebot™ 32MX4 microcontroller development board with a rugged steel platform and all the motors, wheels, sensors and development software needed to build a complete robot. The kits are each geared towards a different specialty, and each has downloadable assembly instructions and a demo project that make it easy to get your robot up and running quickly.

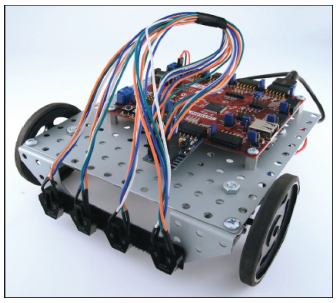
The Cerebot™ 32MX4 features one of the new Microchip® PIC32™ microcontrollers. The PIC32 provides a 32-bit MIPS processor core operating at 80Mhz, 512K bytes of program FLASH and 32K bytes of RAM memory and numerous peripheral devices, including a USB controller, timer/counters, serial interface controllers, A/D converter and more. The board has numerous I/O connectors and power supply options, including USB power. It also has a built in programming and debug circuit compatible with the included Microchip MPLAB development software.

RDK Basic



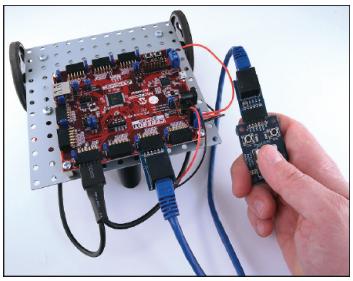
The Basic kit provides the components needed to build a simple autonomous robot. It combines the RSK and Cerebot 32MX4 with a push button module, a switch module and a character LCD module.

RDK Line Sensor



The Line Sensor kit provides the components needed to build a line following robot. It combines the RSK and Cerebot 32MX4 with the optical sensor module, optical sensors, and mounting bracket.

RDK Remote



The Remote kit provides the components need to build a wired remote control robot. It combines the RSK and Cerebot 32MX4 with a joystick module and 10' control cable.

RSK Robotic Starter Kit

The Robotic Starter Kit provides all the parts necessary to build the basic robot platform. It includes the metal base plate, motor mount bracket, two motor/gearboxes, two wheels, support skid, and battery holder plus all necessary hardware and wiring. The RSK also includes two PmodHB5, h-bridge modules, which provide the control electronics needed to drive the motors from a microcontroller board.

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