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Model R500 Capabilities:

Programmable in C via open source WinAVR and RobotLoader software

Moves like a caterpillar on the floor

Retreats from object when contact made with antenna

Antenna changes color when touching an object

Transparent body is fitted with LEDs and shines bright in the dark

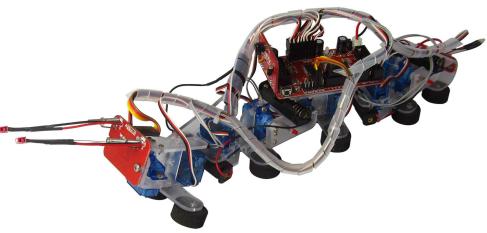
Gets back on its feet when knocked over

Controllable with TV remote

Expandable via the I²C bus interface

R500

Robotic Caterpillar



Features:

- 8 degrees of freedom
- Programmable in C
- IR receiver allows control with a universal remote (not included)
- Antenna sensor
- Tilt sensor
- ATMEGA16 Processor
- Various available I/Os
- I²C Bus Expandable
- Easily download programs with
 RobotLoader Software included on CD
- Comes unassembled as a kit
- ASURO (ARX) accessories available: Display (ARX-DSP), Ultrasound (ARX-ULT), Snake Vision (ARX-SNK), and Minesweeper (ARX-MSP).

Overview:

The Robotic Caterpillar is a fun introductory robotic kit that comes unassembled so it is perfect for school or hobby projects. Minor soldering required. The Caterpillar is controlled by a powerful ATMEGA16 microcontroller that is programmable via open source tools in C.

The robot comes with many example programs already written. Easily download them to the robot using the supplied USB interface and the RobotLoader software. Or write your own custom programs using the free open-source WinAVR software.



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Robotic Caterpillar

Model R500 comes with the following items:

Robotic Caterpillar (unassembled as a kit)

Software CD with WinAVR and RobotLoader

Extensive 77-page manual

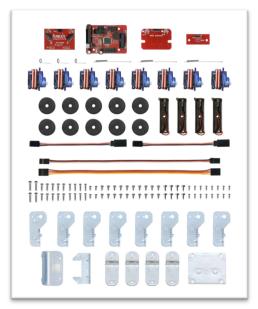
USB connector cable

USB programmer interface

Specifications:	
Processor	ATMEGA16 8 bit microcontroller
Throughputs	16 MIPS at 16 MHz
Memory	16 KB Flash ROM, 1 KB SRAM, 512 B EEPROM
Programming Language	С
Expansion System	I ² C Bus
Interface	USB Cable to PC
Control	Universal remote (not included) capable
Product Dimensions (L x W x H)	500 x 85 x 90 mm (19.7 x 3.3 x 3.5 in.)
Power Supply	4 AAA Batteries (not included)
Power Consumption	100 mA at rest, 3 A with all servos operating
Product Weight	.65 lbs

Specifications subject to change without notice. Go to globalspecialties.com for the latest update.







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