Clodbuster™-III Factsheet

Mobile Robot Base

Model type  Radio controlled (R/C) 1/10 scale 4x4x4 monster truck kit (4-wheel drive, 4-wheel steering and independent suspensions). Current model is TXT-1 Tamiya Extreme Truck.

Manufacturer  Tamiya Inc. (www.tamiya.com)

Dealer  Tower Hobbies online, hobby stores. Price $369.99.

Sensor Suite

Vision  Folded Omnidirectional camera mirror assembly made with a Point Grey Research Firefly camera.

Infrared  12 Sharp GP2D02 IR sensors with 3 situated in each corner of the robot. Approximate price $21.00 each.

Accelerometer  Dual Axis Accelerometer integrated into SPack Board

SPack Board  Custom built FPGA based sensor package board. The SPack board includes an integrated accelerometer, inputs for power, IR sensors and servos and a serial output connection. For detailed information about the SPack refer to the SPack Factsheet.

Power  Sanyo 2400 8 Cell 9.6V Nickel Cadmium battery pack supplies power to camera and the sensor board. Price $56.95. Charger sold separately.

Modular Onboard Computer

Current Computer  Sony Viao® SR87

Processor/Memory  Pentium III 850 MHz with 256 MB memory

Communications  Integrated 802.11b Wireless LAN connectivity

Camera Interface  Integrated IEEE 1394 Firewire connection

OS  Windows XP

Low level software  Developed in-house using C++ and .Net
## Clodbuster Accessories

<table>
<thead>
<tr>
<th><strong>Motor Battery</strong></th>
<th>Duratrax <em>Piranha</em> 1500 SCX 6-cell flat 7.2 V racing battery pack, other options available for longer life. Price $15.</th>
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<tr>
<td><strong>Speed Control</strong></td>
<td>Rooster reversible speed control replaces basic mechanical servo based speed controller that comes with the Clodbuster kit. Many other options possible.</td>
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