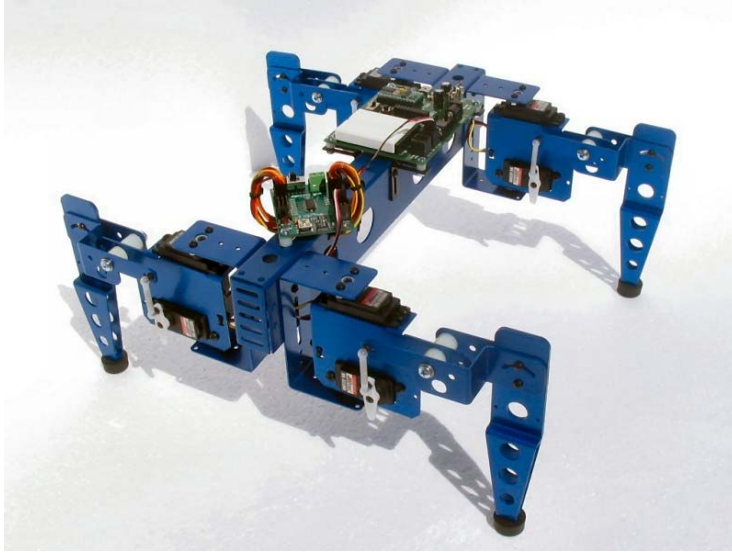


AML-CrustCrawler robotic design & development – QuadRod HD.



Quadrod HD full kit :-

- Parallax SERIAL/USB board of education (1 Nos).
- Parallax BS2 STAMP (1 Nos).
- Parallax Servo Controller (1 Nos).
- Parallax LCD appmod (1 Nos).
- Hitec HS-322HD /equivalent servos (8 Nos).
- QuadRod Manual

Specifications :-

Material : Super strong .063 Gauge 5052 aluminum with type II anodizing for weather and scratch resistance.

Prototyping space : Over 56sq.inches (361 sq.cm) of total prototyping space is available on the QuadCrawler body.

Ground clearance : 2.75" (7cm).

Leg movement : 2 degree of freedom (vertical and horizontal) for the standard kit and 3 degree of movement with the 3 axis leg upgrade kit.

Electronic : parallax board of education (BOE) , basic stamp 2 (BS2), and an all new powerful, 16 servo, parallax servo controller (PSC).

HS-322HD servos : Cored metal brush motor, top/resin bushing bearing, torque at 4.8V 42oz/in (3.0 kg/cm), Torque at 6.0V 51 oz/in (3.7kg/cm), speed at 4.8V 0.19 sec/60 degree at no load, speed at 6.0V 0.15sec/60 degree at no load, dimension 40 x 20 x 36.5mm, weight – 43g(1.52oz).

DIMENSION : Overall dimension 13"(33cm) x 13"(33cm) leg to leg.

Height Standing 6.25" (15.88cm).

Payload capacity : to be determined.

Weight : 2.4lbs (1.09kg) with servos.

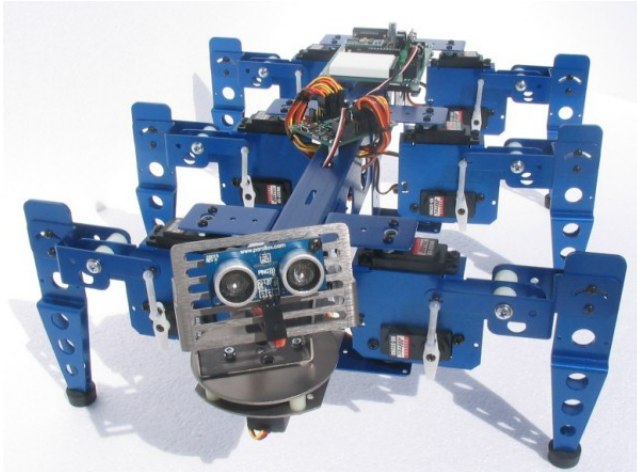
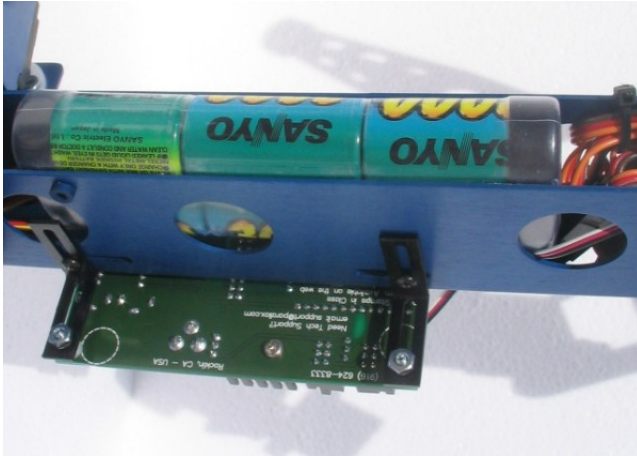
Accessories : S3 tilt/pan system, S2 sensor stand, infrared distance detection kit, 5V regulator kit, 3300 NiMh battery, battery charger, BOE power supply, servo power supply.

The **QuadRod** employ a solid "C" channel center chassis design for incredible strength and rigidity, unlike other kits that used thin tubes, Crustclawler " C" channel design can accommodate full size batteries and allow you to route all of your electronic and servo wires neatly and cleanly inside the channel.



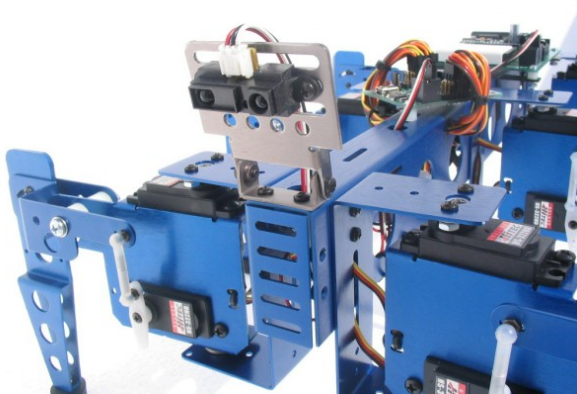
ADVANCE MICROLINK SDN BHD

Tel : 603-62771012 Fax : 603-62779011 email : sales@amlsb.com, <http://www.amlsb.com>



The key to all of this strength lies in the HexRod and Quadrod efficient and flexible leg design. Some kits on the market employ inferior “servo bracket” design which have servos bolted directly to a servos spindle. This poor design leads to hot running servos ,high power consumption and very limited payload capacities because the servos have to constantly fight the entire weight of the robot. With CrustCrawler

efficiently engineered fulcrum point design, the entire weight of the robot including all accessories sit on the servos spindle (Or drive shaft) when the legs are fully extended. The result is ultra low power consumption, cool running servos and the ability to carry 6+ pound payload capacities without sacrificing leg clearance.



Key Features :-

- Ultra strong “C” channel centre chassis design.
 - Integrated “ pem nuts “ which makes adding hardware and electronic a breeze.
 - Accept any standard size servo.
 - Fully adjustable (vertically and horizontally) circuit board holders.
 - Legs can accommodate (2) different walking hardware configurations.
 - (2) integrated fulcrum point for heavy payload capacities.
 - 6+ pound payload capacity (4lbs. for Quadrod and 6+ pound for the Hexrod).
 - Leg angles can adjust to a fixed 45 to 135 degree.
 - Super tough, brilliant blue, type II anodized finish.
- Adjustable fulcum point leg design for superior power efficiency and heavy payload capacities.



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