

Press Information For Immediate Release

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HighRes Photo available at
www.roboteq.com/pressroom.html



At a Glance:

- High Power DC Motor Controller
- 2 x 150 Amps at 50V with smart current limiting
- Built-in Basic Language interpreter
- RC Radio, USB, RS232 or Analog interface
- Encoder inputs for Speed and Position
- User I/Os
- Open loop and closed loop speed mode
- Closed loop position mode
- Field upgradable software

Applications

- Autonomous or remote controlled robotic vehicles
- Underwater robots (ROVs)
- Flight simulators
- Computer controlled DC motors

Programmable 2 x150A DC Motor Controller targets Mobile Robot & Automation applications

Scottsdale, AZ, September 30, 2010 – Roboteq, Inc (www.roboteq.com) introduces an intelligent controller capable of directly driving two DC motors up to 150Amps each at up to 50V. The HDC2450 is targeted at designers of mobile robots, Automatic Guided Vehicles (AGVs), or any other high power motor control application.

The controller accepts commands from analog joystick, standard R/C radio, USB or RS232 interface. Using the USB or serial port, the HDC2450 can be used to design fully or semi-autonomous robots by connecting it to single board computers, wireless modems or WiFi adapters.

The HDC2450 incorporates a Basic Language Interpreter capable of executing over 50,000 Basic instructions per second. This feature can be used to write powerful scripts for adding custom functions, or for developing automated systems without the need for an external PLC or microcomputer.

The controller's two channels can be operated independently or combined to set the direction and rotation of a vehicle by coordinating the motors on each side (tank-like steering). The motors may be operated in open or closed loop speed or position modes with a 1 kHz update rate. The HDC2450 includes inputs for two Quadrature Encoders up to 250kHz, for precise speed and traveled distance measurement.

The HDC2450 features intelligent current sensing that will automatically limit the power output to 150A in all load conditions. The controller also includes protection against overheat, stall, and short circuits.

The controller includes up to 11 analog, 19 digital and 6 pulse inputs. Eight 1A digital outputs are provided for activating, lights, valves, brakes or other accessories. The controller's operation can be optimized using nearly 80 configurable parameters, such as programmable acceleration or deceleration, amps limits, operating voltage range, use of I/O, and more.

A free PC utility is available for configuring, tuning and exercising the motor. The controller can be reprogrammed in the field with the latest features by downloading new operating firmware from Roboteq's web site.

The HDC2450 is built into a compact 9.0"L x 5.5"W x 1.6"H (228mm x 140mm x 40mm), robust extruded aluminum case, which also serves as a heat sink for its output power stage. The large fin area ensures sufficient heat dissipation for operation without a fan in most applications.

The HDC2450 is available now to **customers worldwide** at **\$645** in single quantities, complete with cable and PC-based configuration software. Product information and software can be downloaded from the company's web site at **www.roboteq.com**.

Product Folder link: www.roboteq.com/brushed-dc-motor-controllers/hdc2450-dual-150a-brushed-dc-motor-controller.html

Product Demo Video link: www.youtube.com/watch?v=c3uRgQo_ZNs

Remote controlled Toyota with HDC2450 video: www.youtube.com/watch?v=BL-W7M26JGA

About Roboteq

Founded in 2001 by experts in embedded computing and power electronics, Roboteq's mission is to develop products and technologies that allow novices and professionals alike to build innovative, flexible and affordable mobile robots. Roboteq controllers are now used in over 1000 original robot designs around the world.

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