

Fire Bird V ATMEGA2560 Robotic Research Platform

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Model No: NR-FB5-ATMEGA2560

Category: Security Equipment

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Contact Us

Company Name : Nex Robotics
Pvt. Ltd

Member Since : 10-Apr-2018

Address : Unit No. 13 & 14,
Building No. 2 (A3), Millennium
Business, Unit No. 13 & 14, Sector
4, Medinipur, West Bengal

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Microcontroller Atmel ATMEGA2560 as Master
 microcontroller Atmel ATMEGA8 as Slave microcontroller
 Sensors Three white line sensors (extendable to 7) Five
 Sharp GP2D12 IR range sensor (80cm) (One in default
 configuration) (Also supports GP2D120 (30cm) and
 GP2Y0A02 (150cm) Eight analog IR proximity sensors
 (20cm) Eight analog directional light intensity sensors Two
 position encoders (extendable to four) Battery voltage
 sensing Current Sensing (Optional) Servo mounted sensor
 pod (optional) Wireless colour camera (optional)
 Ultrasound scanner (optional) Gyroscope and
 Accelerometer (optional) Magnetometer (optional) GPS
 receiver (optional) Indicators 2 x 16 Characters LCD
 Indicator LEDs Buzzer Control Autonomous Control PC as
 "Master" and Robot as "Slave" in wired or wireless mode
 Distributed (multi robot) communication Communication
 Wireless ZigBee Communication (2.4GHZ) (Optional) USB
 Communication Wired RS232 (serial) communication
 Simplex infrared communication (From infrared remote to
 robot) Robotic Arm 4 DOF robotic arm (optional)
 Dimensions Diameter: 16cm Height: 10cm Weight:
 1300gms Power 9.6V, 2100mAh Nickel Metal Hydride
 (NiMH) battery pack and external Auxiliary power using
 battery charger. Battery endurance 2 Hours, while motors
 are operational at 75% of time. Payload 2 kg on flat surface
 Locomotion Two DC geared motors in differential drive
 configuration and caster wheel at front as support Top
 Speed: 24 cm / second Wheel Diameter: 51mm Position
 encoder: 30 pulses per revolution Position encoder
 resolution: 5.44 mm Software Support AVR Studio GUI
 based control Kit Contains Fire Bird V Robot with all the
 sensors mentioned in technical specifications
 Documentation CD USB Programmer (ISP) Smart NiMH
 battery charger with power adaptor Serial cable USB cable
 Flex printed 6 feet white line more details visit : [http://
 www.nex-robotics.com/products/fire-bird-v-robots/fire-
 bird-v-atmega2560-robotic-research-platform.html](http://www.nex-robotics.com/products/fire-bird-v-robots/fire-bird-v-atmega2560-robotic-research-platform.html)

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