

Overview

- Powerful robotics solution for university and high school educational and hobbyist markets
- High-performance CPU with an excellent I/O feature-set for robotics and mechatronics applications
- Low-cost

Hardware

- 200 MHz ARM9 RISC processor with MMU and hardware floating point unit
- 32 Mbytes SDRAM, 16 Mbytes flash memory
- Latest generation Xilinx Spartan 3E FPGA for custom I/O peripherals
- Linux 2.6 installed
- WiFi wireless networking support
- WebCam video input support
- 4 Amp switching power supply, 90% efficient, 7 to 30 Volt input range
- Rugged aluminum enclosure
- 5.1" x 5.8" x 1.3"

I/O

- 4 closed-loop 2.0 Amp motor controllers (supports both quadrature encoder and back-EMF "sensorless" feedback)
- 16 RC-servo controllers
- 16 programmable digital I/Os
- 8 12-bit analog inputs
- 2 RS-232 ports
- I²C ports
- 2 USB 2.0 host ports for connecting standard USB PC peripherals
- 10/100BT Ethernet port
- Built-in audio amplifier with MP3, PCM and WAV audio support

