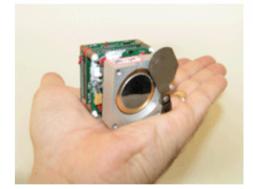
Technologies of the Month

Dave Jaffe March 25, 2006

Thermal Imaging Sensor Modules

- 160 x 120 320 x 240 384 x 288 pixel units
- Uncooled
- 2x and 4x electronic zoom
- Digital control interface
- Analog and digital video outputs







http://www.armstrongoptical.co.uk/Thermal/Thermal.html

Computer on a Stick

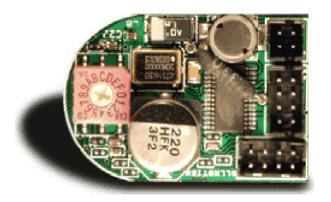
Computer-On-a-Stick (COS) is a USB Flash
Drive featuring its own ultra fast Operating
System, Microsoft Word, Excel, and
Powerpoint compatible applications, Email,
Firefox, and more...



- Capacities of 256 Mb to 2 Gb
- 512K PRO \$139
- Linux 2.6.x Series Kernel
- Gnome GUI Desktop
- Includes: Mozilla Firefox Web Browser, Evolution email, and Yahoo & MSN compatible Instant Messenger

Servo Drive

- 12 40 volt, 1.5 amp DC brush servo driver
- 0.95" x 1.4" x 0.6"
- High level serial commands
- Position, velocity, and torque modes
- Quadrature encoder based feedback
- Up to 16 stepper / servo motors
- \$199



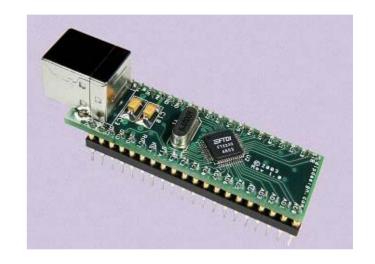
32-bit Processor Module

- Coldfire processor
- Ethernet
- 2 UARTs
- 22 I/O lines
- 4 timers
- QSPI port
- USB port
- 2 Mb Flash, 8 Mb RAM
- 2" x 2.6"
- Board only \$139
- Development kit \$499



Dual Channel USB Module

- FTDI FT2232C dual USB 1.1 chip
- PIC 16F877 MPU
- Reprogram MPU through USB
- Compiler available
- \$35



Rugged Memory Device

- 128 Mb 1 Gb capacities
- USB and SPI interfaces
- Embedded applications



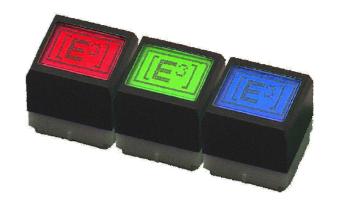
TI Low Power MCU

- 16 MIPS performance
- < 1 uA standby current
- Choice of converters: comparator, 10-bit A/D, 16-bit sigma-delta
- Physical size as small as 4 by 4 mm
- World's smallest complete development tool for only \$20
- Free if you attend seminar in San Jose on May 25th
- USB interface
- Development kit includes: assembler, linker, simulator, source-level debugger, and limited C-compiler



LCD Switch

- 64 RGB colors
- Backlit
- 32 by 16, 36 by 24, and 64 by 32 pixel resolutions
- 4-wire SPI interface



Disk Drives

- Western Digital WD1200VE
- High capacity 120 Gb 2.5"
- 5400 RPM \$235



- Higher capacity 160 Gb 2.5"
- 5400 RPM 8 Mb cache \$325
- Toshiba MK4001MTD
- Small size .85" 4 Gb
- 3600 RPM \$?

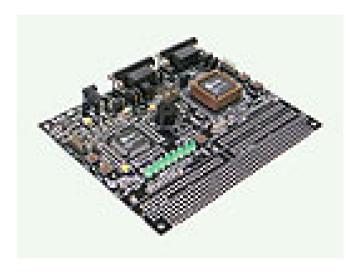






8051 Development Kit

- Ramtron \$99
- 3.3 and 5v regulators
- RS-232 transceiver w/ DB-9
- LEDs
- 2-wire Flash RAM
- Buzzer and prototyping space
- In-circuit programmer
- Integrated development environment
- C compiler and assembler



Sterile Mice

- Washable optical mice
 - Sealed structure lets you wash and sterilize.
- Easy to disinfect
 - Can withstand being immersed in antibacterial solutions and rinsed under a tap to reduce spread of germs.
- "The cleanliness you want, the performance you expect"
- \$80

Blue Light Special

- Blue illuminated piezo and mechanical switches
- Optical feedback indicates the switch position (on/off)
- Yellow, red, and green also available

