

Interesting Items

Volume 11

Dave Jaffe

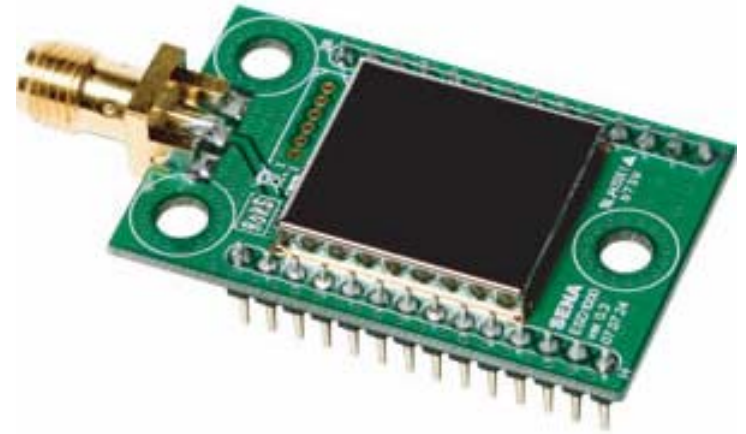
07/26/2008

Caveats

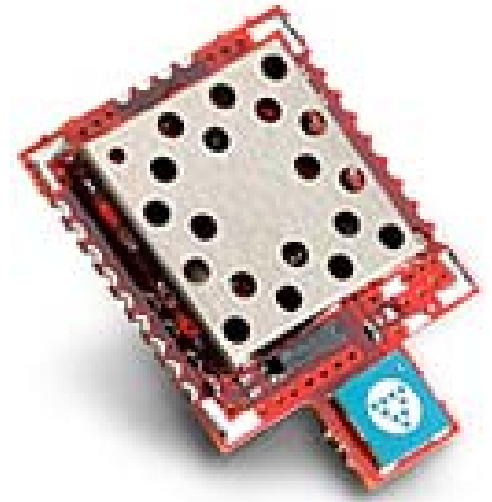
- I came across these products in recent magazines
- I have not bought or used these products
- I do not endorse these products
- I do not know much more about these products

Bluetooth Module

- Serial UART interface
- Bluetooth 2.0 stack
- 921.6 Kb/sec transfer speed
- Windows configuration tool
- 1.93 by .9 by .43”
- \$47



ZigBee Module



- Low power consumption
- Serial interface
- 128 Kb embedded flash for applications
- GUI-based configuration utility
- 25.4 by 34.3 mm
- 2 models – different output power

Wireless RS232 to USB

- Wireless USB interface to PC
- One receiver works with multiple transmitters
- 2.4 Ghz – 130' range indoor
- 9600 baud
- \$159 for transceiv



Broadband Module

- Embedded module
- Full stack
- 2 serial channels
- 802.11 b/g
- 45 by 45 mm



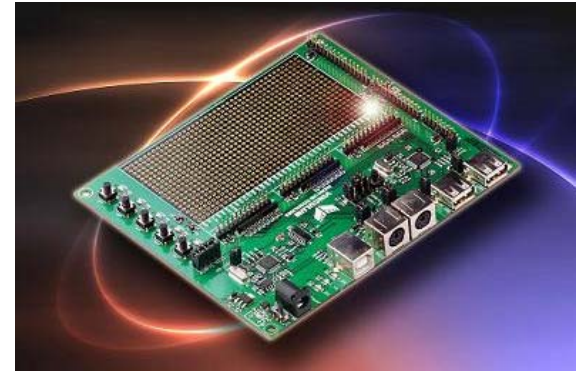
GUI Display

- \$199
- RS232, USB, SPI, I²C interfaces
- 20 I/O lines
- 2.7" color display
- Custom fonts
- Programmable graphic commands
- Evaluation interface board
- Optional touch screen control



Embedded USB Host

- Evaluation board
- 2 ports
- RS232, SPI, and FIFO interfaces
- 5 switches, 5 LEDs
- Keyboard and mouse connectors



USB ToolStick



- Silicon Labs C8051F ToolStick Kits
- ToolStick base adapter (\$17.50), daughter card (\$9.90), and programming adapter (\$69)
- Evaluation kit \$10.99



<http://www.ecnmag.com/article.aspx?id=157434&adcode=section=kits&menuid=238>

<https://www.silabs.com/products/mcu/Pages/ToolStick.aspx>

USB-based RS232 Tap

- Passive RS232 tap module - \$140
- EZ-View monitoring software



Wireless Module

- 900 Mhz - \$75
- Serial AT programming
- 15 mile range
- Networking and low-power modes
- Not just ZigBee mode
- Development kit - \$149



TI UARTs

- 1.8, 2.5, 3.3, or 5 volt
- Single, dual, and quad devices
- 16 or 64 byte FIFOs

Sensor Signal Interface Chip

- 16-bit A/D converter front end
- Low power consumption
- Auto-zero mode
- Storage of configuration data
- SPI interface



Wireless UART Chip Set

- Controller and slave chips
- Controller accepts serial and parallel interfaces
- Slave chip communicates via I²C and operates at 915 Mhz
- Flow control implemented
- \$6.75 in quantity for chip set

<http://www.exar.com/Common/Content/ProductDetails.aspx?ID=8098&ParentID=1>

<http://www.exar.com/Common/Content/ProductDetails.aspx?ID=8099&ParentID=1>

GPS Receiver Module

- 24 by 24 mm
- Serial interface to host
- 3.3 v
- \$34 in quantity



Wireless Medical Device

- \$10 in quantity – soon
- Prototyped with pulse oximeter, scales, blood pressure monitor, temperature
- Can support a display
- UART or USB connections



Vex Robots

- Inchworm - \$15
 - IR remote control
 - 7-way steering and “feelers”
- Other units \$10
- Mini programmable - \$100
- WiFi controller soon



Robonica

- C programmable controller allows users to create games for USB download
- IR sensor
- Uses 12 AA batteries
- Not yet available



Modem Modules

- TinyModem is .66 by 1.25 by .75”
- Built-in RJ-11 jack
- 300 – 56 Kbps
- Serial TTL or USB interfaces



<http://www.radi.com/modular51.htm>

<http://www.radi.com/modular47.htm>