Terminodes Bluetooth Ad-Hoc Testbed

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Terminodes Bluetooth Ad-Hoc Testbed

- Based on Bluetooth link layer
- Ignore radio and higher layers

Pro’s
- Fully digital subsystem
- Off the shelf
- Small
- Relatively cheap

Con’s
- Limited to M-S piconets
- Slow connection mechanism
- Not really low power
- No handoff
- The faulty implementations available
First Generation Network Node

- Communication via Bluetooth Transceiver
- Generic Sensor Interface
  - GPIO, I2C
- UART Data Interface
- 8-bit Microprocessor and Memory
- Powermanagement

Diagram:
- Bluetooth Module
- ATmega128L Microcontroller
- SRAM
- RS232
- Power Supply
- Clock/Timer
- LED’s
- GPIO
- Analog IO
- Serial IO
Bluetooth Connectivity
We are currently building about 200 Designkit with for hardware and software SDK will be available this summer

http://www.tik.ee.ethz.ch/~beutel/bt_node.html