hiDBLUE – Bluetooth to USB bridge

Android Device acts as standard keyboard, mouse, numeric keypad, touchpad, barcode scanner, etc… and more.

May 13, 2013

Goals (1 of 2)

- Use Android Device to emulate various standard USB devices
  - Data source: ANY Android 2.0 or later Device, with present Bluetooth
  - Data destination: ANY Device with USB port, running ANY Operating System that contains standard USB HID (Human Interface Device) drivers
- Add independent 2-way data flow capabilities for additional features

Goals (2 of 2)

- Use only native drivers already present
  - Avoid deploying any low-level code
  - Do not request Android devices to be rooted
- Provide free and documented APIs to simplify various additional usages and integrations
  - Royalty-free API libraries
  - Example code presenting basic usages
- Device firmware is field-upgradeable

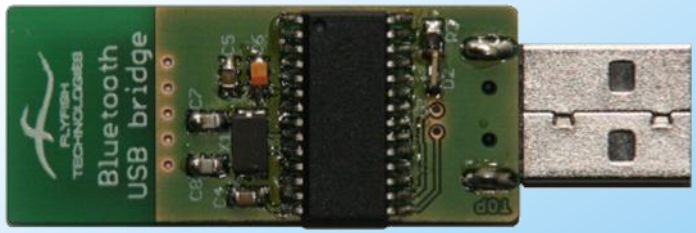
Solution Approach

- Develop USB Device containing Bluetooth radio
  - On the USB side it is (at the same time) “visible” to host Operating Systems as:
    - Standard USB Keyboard
    - Standard USB Mouse
    - Custom USB HID device
  - On the Bluetooth side it is “visible” to Android Device as native SPP-profile device, supported on Android version 2.0 and later

Result

- hiDBLUE is a Device that fulfills all listed Goals using the described Solution Approach
- Documentation, APIs, Demo binaries and Code examples are available for Free download
- Provided Demo presents features and basic usage

Layout of first working prototype of the Device



Further Information

- http://www.flyfish-tech.com/hiDBLUE

- hiDBLUE@flyfish-tech.com