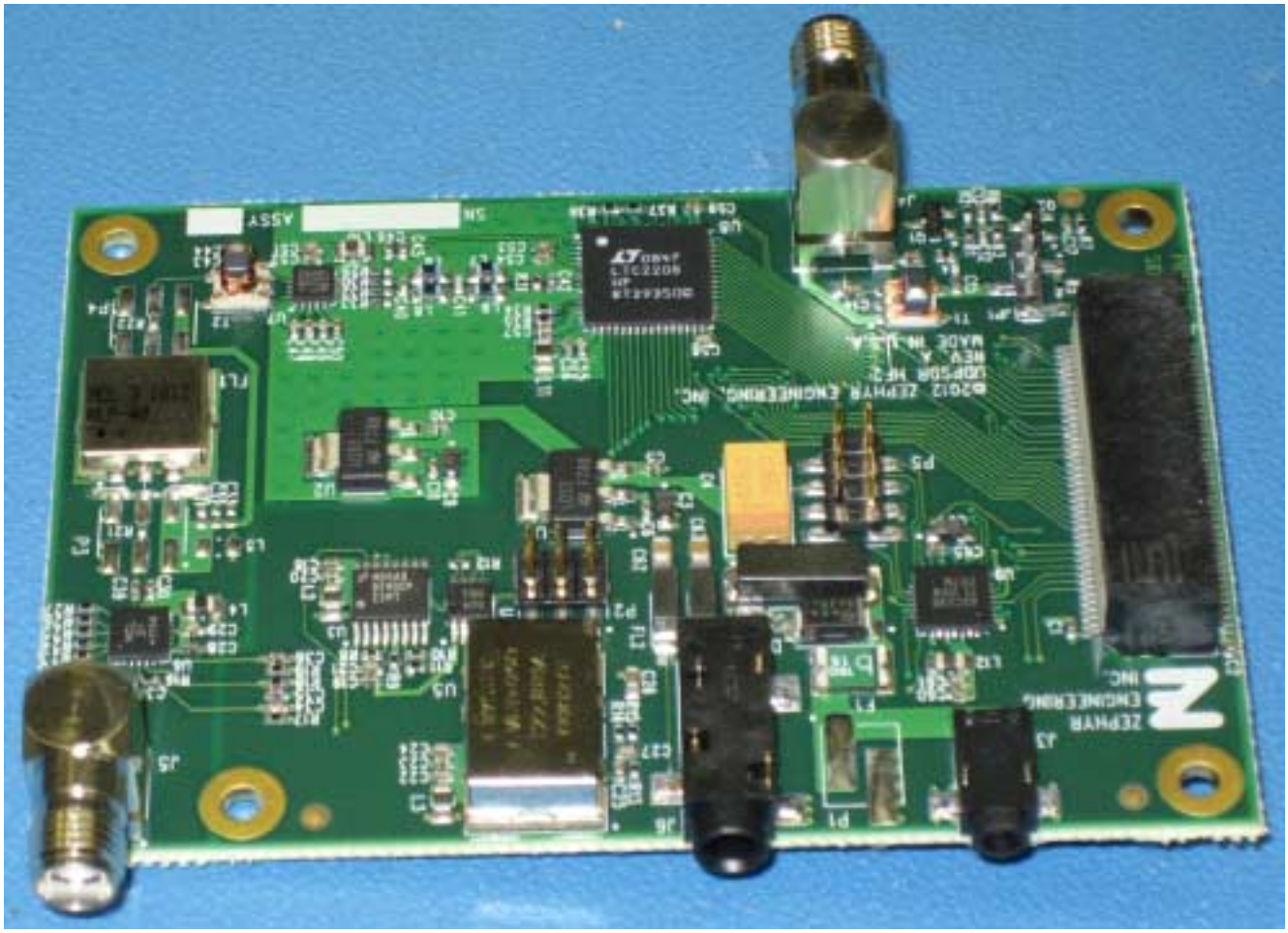
SDR Stick™



The UDPSDR-HF2 SDRstick™ from Zephyr Engineering, Inc

Zephyr Engineering, Inc announced a new series of Software Defined Radio hardware dubbed the SDRstick™

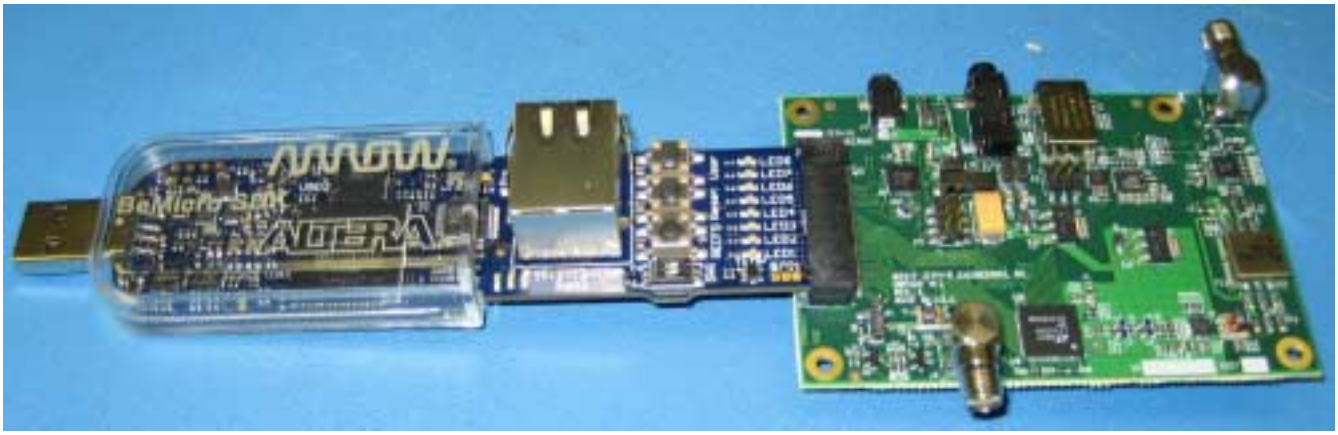
The first SDR in the SDRstick™ series, the UDPSDR-HF2 features a 16-bit ADC sampling at 122.88MSPS. The HF2 is designed to be a front-end companion to the Altera BeMicro SDK from Arrow Electronics. Together, the HF2 and BeMicro SDK form a complete high-performance 100kHz – 54MHz Digital Down Conversion receiver.

HF2 Features:

- LTC2208 16-bit, 122.88MSPS ADC
- On-board 20dB LNA and LPF
- Step attenuator, 0-31dB in 1dB steps
- Extremely low phase-noise oscillator, -152dBc/Hz (@10kHz spacing)
- External LVDS clock input/output for custom sampling rates or synchronization
- External sine-wave clock input for multi-receiver synchronization
- Audio CODEC directly drives headphones for receive audio output
- Power requirements: 5VDC@800mA (including BeMicroSDK)
- Hardware emulation of openHPSDR Mercury and Hermes (receive section only)
- Compatible with PowerSDR™, Kiss Konsole, GHPSDR3 software
- GNU Radio drivers and sample IP available soon
- Customization available to suit specific applications

BeMicro SDK added features:

- Altera Cyclone IV EP4CE22 FPGA for I/Q pre-processing
- 10M/100M Ethernet interface for streaming I/Q data via UDP
- 64Mbyte Mobile DDR SDRAM
- Embedded USB Byte Blaster for programming configuration flash
- Micro-SD card socket



A complete SDR receiver: UDPSDR-HF2 SDRstick™ paired with BeMicro SDK

Web links for more information:

UDPSDR-HF2 SDRstick™
http://zephyrengineering.com/sdrstick/

SDRstick™ Yahoo Group
http://groups.yahoo.com/group/sdrstick/

BeMicro SDK
http://www.arrownac.com/solutions/bemicro-sdk/

GNU Radio
http://gnuradio.org/redmine/projects/gnuradio/wiki