

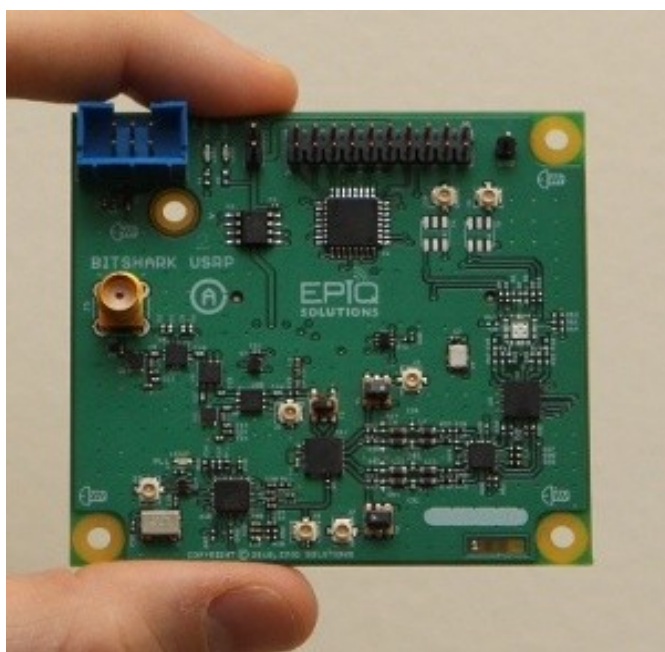


# Bitshark USRP

## Broadband configurable RF receiver

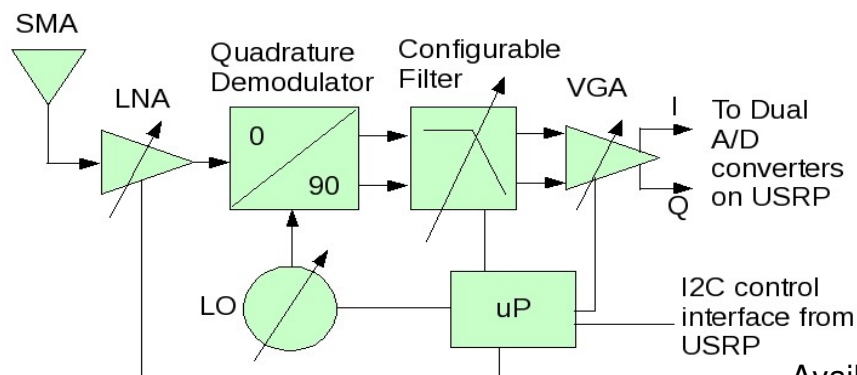
The Bitshark USRP RX (BURX) daughterboard is a broadband, high performance RF receiver that integrates directly with the open source USRP1 or USRP2 radio platform to provide a low cost, all in one software defined radio receiver solution. The BURX daughterboard is capable of tuning to any frequency of interest between 300 MHz and 4 GHz, while supporting user defined channel bandwidths up to 50 MHz. Targeted at commercial wireless radio applications, the BURX daughterboard supports the following frequency bands:

- ▶ GSM (850/900/1800/1900 MHz)
- ▶ iDEN (800 MHz)
- ▶ CDMA2K/EVDO (450/800/1900/2100 MHz)
- ▶ UMTS (Bands I-XIV)
- ▶ TD-SCDMA (1.9/2.0/2.4 GHz)
- ▶ WiFi/802.11 b/g (2.4 GHz)
- ▶ WiMAX/802.16 d/e (2.3-2.7 GHz, 3.3-3.8 GHz)
- ▶ LTE (Bands 1-40)
- ▶ TV Whitespace (400-700 MHz)
- ▶ ...plus many others



### Key Features

- RF daughterboard that integrates with the USRP1 and USRP2 (manufactured by Ettus Research)
- Direct conversion (zero-IF) architecture
- RF tuner covering 300 MHz to 4 GHz
- Configurable channel filter supporting RF bandwidths up to 50 MHz
- Integrated high-stability 26 MHz TCXO (accessible for use by USRP)
- Low power consumption (<1 W)
- MIMO capable with multiple BURX cards
- Open-source driver for use with the GNU Radio framework
- Supports stand-alone operation (control over a standard serial port) for use with external A/D converters
- Commercial price: \$750 Academic price: \$550
- Custom variants available. Please contact us at [info@epiq-solutions.com](mailto:info@epiq-solutions.com) to discuss your needs.



Preliminary specification, subject to change

Available Q1 2010