High Performance Software Defined Radio

An Open Source Design

- Home
- Downloads
- Documents
- Support
- Wiki
- Discussion List
- TeamSpeak
- Resources
- Project Outline
- Publications
- Videos
- Manufacturer Links
- Derivative Projects
- Archives

Resources

Hardware \| Atlas - Backplane \| Pinocchio - Extender \| Janus - IQ Sound \| Ozy - USB Interface \| Magister - USB Interface \| Mercury - Receiver \| PennyLane - Transmitter \| LPU - Power Supply \| Pandora - Box \| PennyWhistle - Amplifier \| Excalibur - Clock Insert \| Metis - Ethernet Interface \| Alex - Filters \| Hermes - Single board \| Apollo - 15W PA \| Munin - 100W PA \| Phoenix - QSD Radio \| Khronos - GPSTCXO \| Themis - GPSDO \| Gibraltar - GPS \| Odyssey - Space \| Thor - Amplifer \| Demeter - Power Supply \| Cyclops - Spectrum Analyser \| Software \| PowerSDR - Windows \| ghpsdr - Linux standalone \| ghpsdr3 -Linux server/client \| ghpsdr3-Qt -Linux \| Kiss Konsole - Windows \| Heterodyne Mac \| \| \|

Status

License NCL
Author Lyle, KK7P
Available
in built and PCB form from TAPR

Updates

Janus - the A/D and D/A module

About the Janus Module

The Janus module is a very high performance, dual, full duplex, A/D and D/A converter board. While the M-Audio Delta 44 has become the de-facto standard for A/D sound cards for use with a SDR, there are a number of advantages to rolling your own. These include having complete control of any software drivers needed to communicate with the A/D chips as well as optimization of sampling rates and bit depths for individual signals. It's also possible to cost effectively develop a board which approaches the performance of professional high end sound cards.

The consumer demand for high quality PC sound cards has resulted in the availability of a number of very high performance, and low cost, A/D and D/A converter chips that are ideal candidates for this project.

It should be emphasized that Janus is NOT a "sound card" per se. It will not plug into a PC and substitute for a sound card like the M-Audio Delta 44. However, paired with the Ozy board and with proper software, it can act like a very high performance sound card external to the PC.

The project leaders for the board are Bill KD5TFD and Phil VK6APH.

Link to Wiki

Our HPSDR Wiki will contain the latest news, links, files, etc. for Janus. Here is the direct link to the HPSDR Wiki: JANUS

Link to Documents

Here is the direct link to the Janus Documents:

> Support Documents

Second Alpha Prototype: