

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 - Amplifier](#) \ [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 [OHL](#)

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Available from [TAPR](#)

Update

January 19, 2012 TAPR (tapr.org) and iQuadlabs (iquadlabs.com) jointly announce a sourcing agreement for the openHPSDR (openHPSDR.org) boards Magister, Mercury and PennyLane. [See TAPR](#)

January 7, 2010 Magister Available from Available from [TAPR](#).

November 21, 2009 Magister in preproduction.

Magister - interface module



About the Magister Module

The project leader for the Magister board is Lyle Johnson, KK7P

Magister is an FPGA based interface controller card that provides a high-speed USB 2.0 interface for the Atlas bus, as well as limited additional I/O lines intended for radio control (e.g., bandswitching, CW paddle and so forth). It uses the same Altera Cyclone II FPGA as Ozy and is capable of running the current Ozy code (as of 19 September 2009).

The USB interface uses a Cypress FX2 chip, supporting full duplex USB communications at > 30MB/s.

Magister Development History

Magister prototype in operation with Mercury

The project was undertaken by KK7P in mid-summer 2009. Three prototypes were constructed by early September 2009. Magister loads and runs current HPSDR code. Further testing is underway as this is written (19 September 2009).

Magister is initially released under the TAPR NCL until TAPR has an opportunity to build an initial quantity and distribute them.

Design material are available on hamsdr.

PCB files : <http://www.hamsdr.com/personaldirectory.aspx?id=1108>

Schematic : <http://www.hamsdr.com/personaldirectory.aspx?id=1109>

Bill of Materials : <http://www.hamsdr.com/personaldirectory.aspx?id=1110>

Magister initial production has concluded, the PCB materials are be posted complete, and the entire design is released under the TAPR OHL.

Link to Wiki

Our HPSDR Wiki will contain the latest news, links, files, etc. for Magister. Here is the direct link to the HPSDR Wiki: [MAGISTER](#)

Link to Documents

Here is the direct link to the Magister Documents:

