# High Performance Software Defined Radio

## An Open Source Design

# 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** OHL
**Author** Phil, VK6APH, Lyle KK7P
**Sold-out** in all forms from TAPR

**Commercial vendors** Gerd, DJ8AY (g.loch@nt-electronics.de)
Ron, W9KFB (w9kfb1@mac.com), US reseller of Gerd's boards

TAPR.com sells Pennylane.

# 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

**June 15, 2011** iQuadLabs.com is open selling Pennylane.

**April 15, 2011** New US vendor to sell pennylane a Penelope replacement. iQuadLabs.com

**October 6, 2008** The first production of the penelope boards sell out.

# Pennylane - HF 1/2-watt Exciter === Penelope - HF 1/2-watt Exciter



About the Penelope Module

Penelope (DUCk) 1/2-watt transmitter/exciter board is a good companion to the Mercury HF direct sampling receiver board.

The Atlas (bus) compatible Penelope transmitter uses Digital Up Conversion (DUC) techniques and process the I and Q signal from the PC (or Sasquatch DSP board) directly without the need for a sound card.

Pennylane is a Penelope update with the only difference how the output power is controled. Pennylane is idential to the transmitter on the Hermes board.

The project leader for the board is Phil VK6APH with KK7P doing the PCB layout.

Link to Wiki

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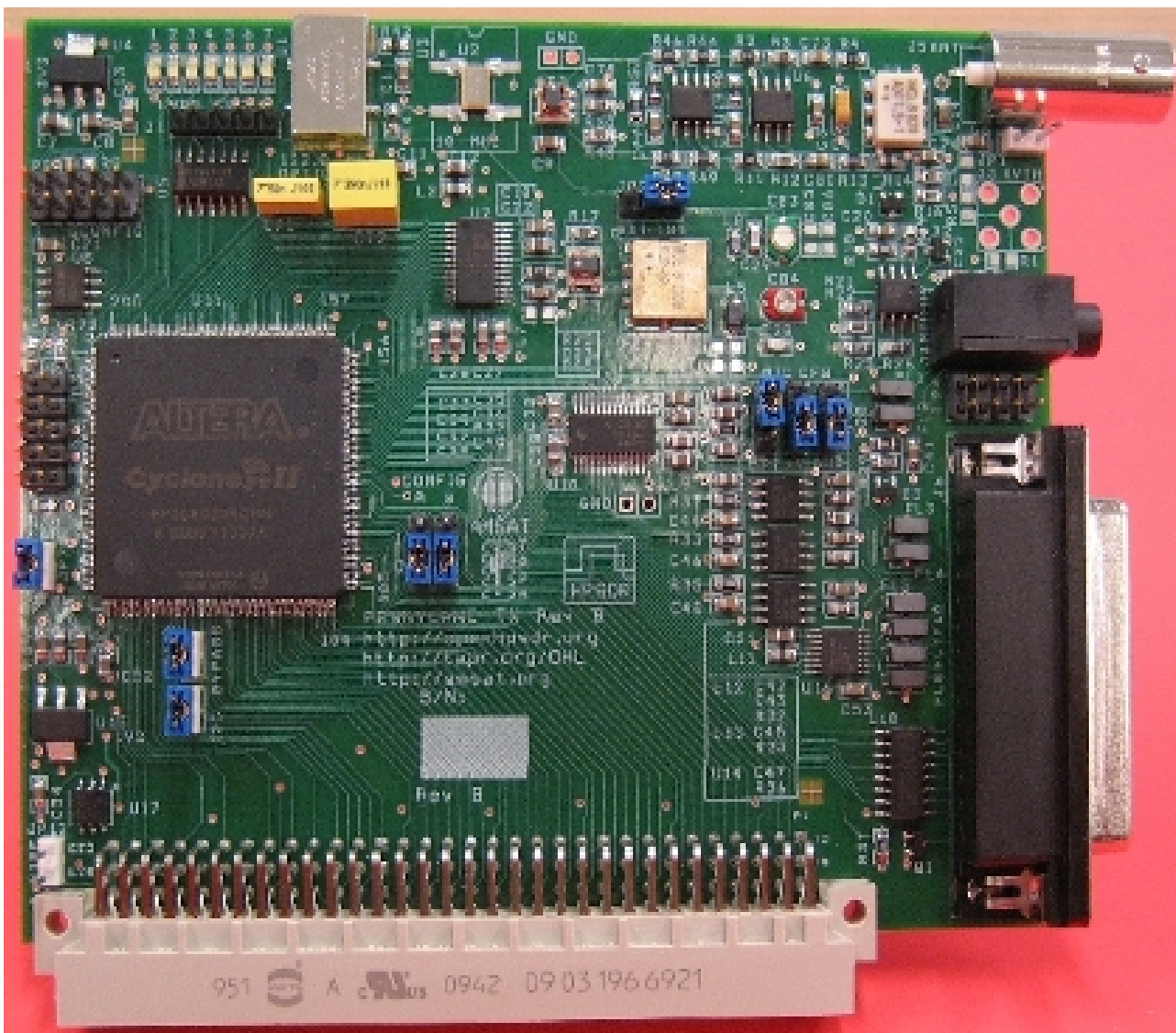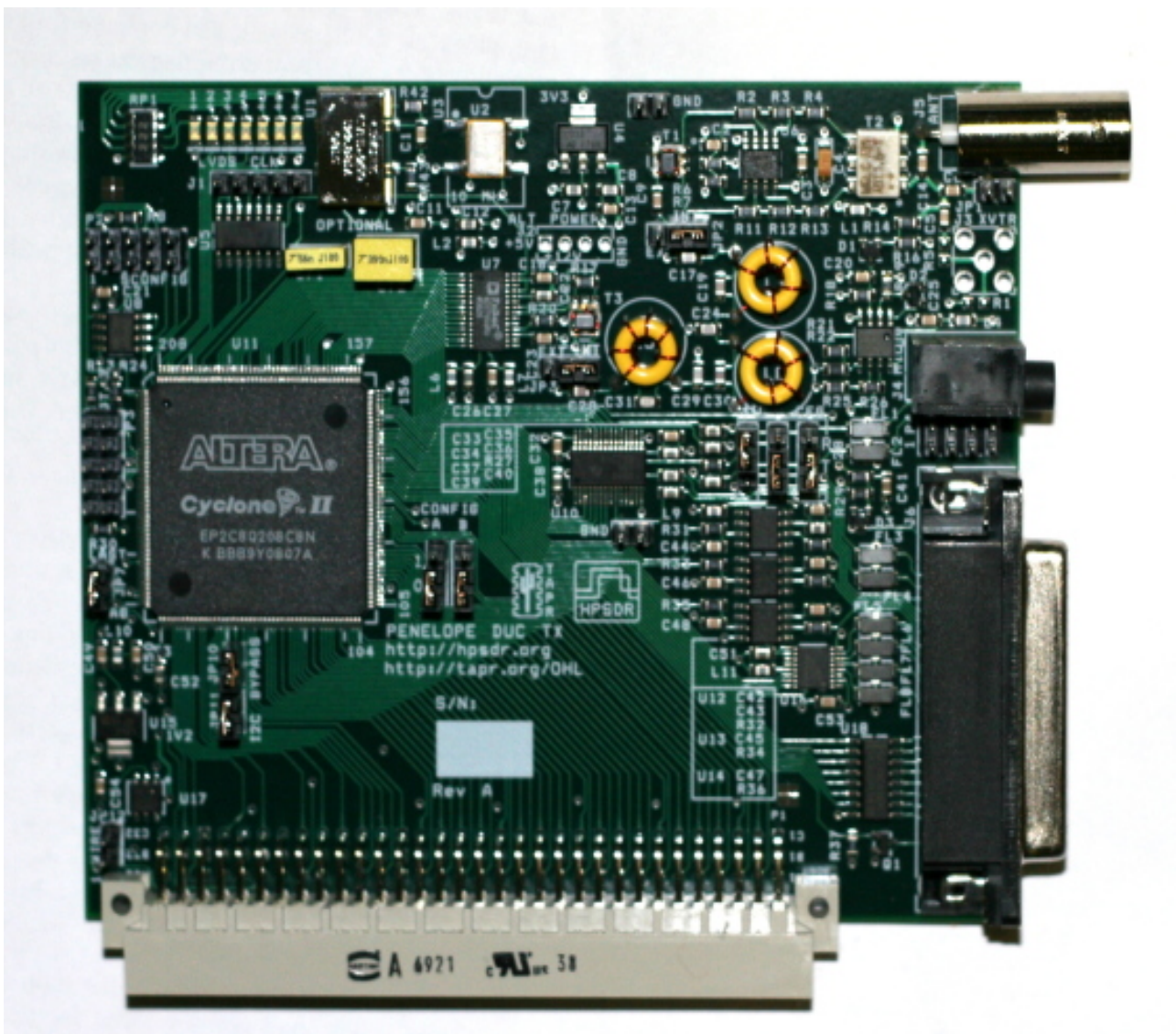
PENELOPE

PENNYLANE

Link to Documents

Here is the direct link to the Penelope Documents:

> Documents
> Support Documents

Pennylane - Note no toroids.

Penelope - Note toroids.