AE5PH RADIO NOTEBOOK

Search this site

Minima All-Band, SSB QRP transceiver

This is the main page for my build of the Minima all-band, SSB QRP transceiver, developed by Ashhar Farhan VU2ESE. An active community of homebrewers has already been established via the Minima Freelist.

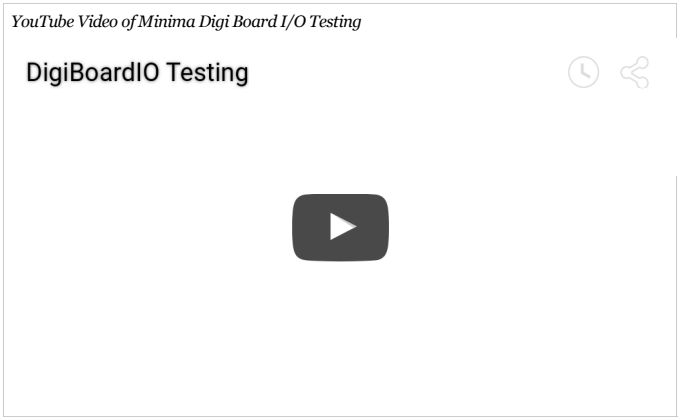
Rather than create a build log, I have decided to create a set of instructions for building the Minima based on the printed circuit board (PCB) designs developed by Adrian Preda YO4HHP. At the bottom of the page are several PDFs of different revisions of the construction guide. A particular revision number for the document is indicated by the suffix R<revision number>.

At the bottom of the page are several ZIP files of Arduino sketches used in testing the the Minima circuit boards. These sketches are reference in the build instructions. These sketches will be updated, as necessary.

Feedback can be provided through the Minima Freelist.

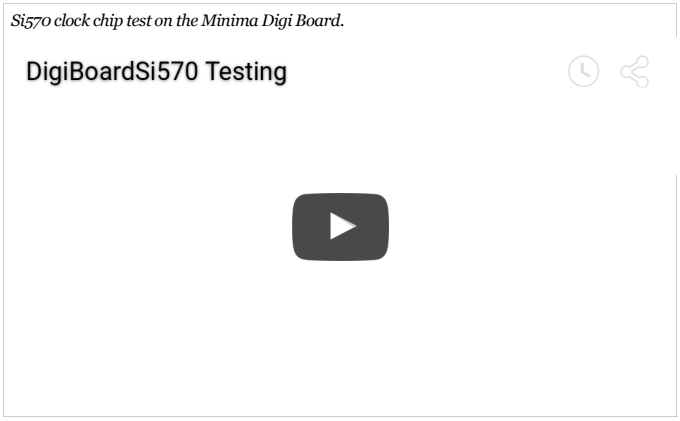
Here is a short video of a test of the I/O on the Minima Digital Board.

YouTube Video of Minima Digi Board I/O Testing



Here is a short video of a test of the Si570 clock chip on the Minima Digital Board.

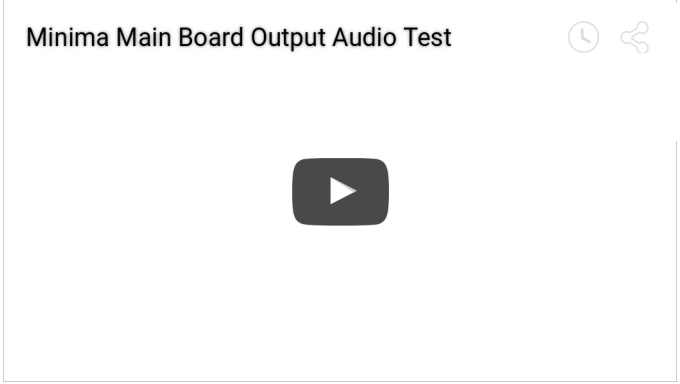
Si570 clock chip test on the Minima Digi Board.



Here is a short video of a test of the Output Audio Amp on the Minima Main Board. The Minima Digital Board is used to generate a 1 KHz squareware audio tone to inject into the

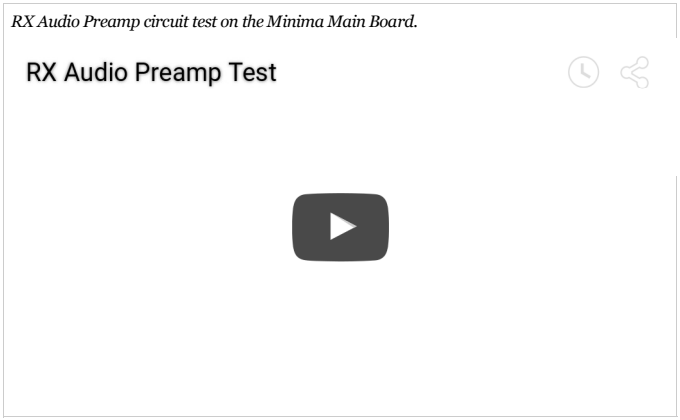
amplifier input.

Output Audio Amp circuit test on the Minima Main Board.



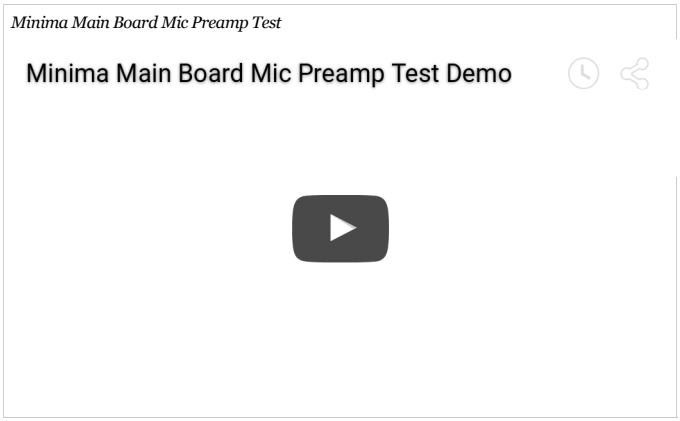
Here is a short video of a test of the RX Audio Preamp on the Minima Main Board. The Minima Digital Board is used to generate a 1 KHz squareware audio tone to inject into the preamp input.

RX Audio Preamp circuit test on the Minima Main Board.



Here is a short video of a test of the Mic Preamp on the Minima Main Board. The audio was recorded using a homebrew acoustic coupler to prevent feedback from the headphones to the microphone. I think that the audio still sounds pretty good!

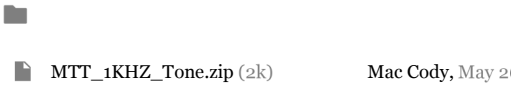
Minima Main Board Mic Preamp Test



Here is a short video of a test of the CW Tone Oscillator on the Minima Main Board.

Minima Main Board CW Tone Oscillator Test

Minima Main Board CW Tone Oscillator Demo



MTT_1KHZ_Tone.zip (2k)	Mac Cody, May 26, 2014, 7:33 PM	v.2	
MinimaConstructionGuide_R7.pdf ...	Mac Cody, May 26, 2014, 9:45 PM	v.1	
io_testing.zip (2k)	Mac Cody, Mar 20, 2014, 7:31 PM	v.1	
lcd_testing.zip (0k)	Mac Cody, Mar 20, 2014, 7:30 PM	v.1	
si570_testing.zip (4k)	Mac Cody, Mar 20, 2014, 7:32 PM	v.1	

Comments