AN10DS40
Quick Start Sheet

Push Buttons S1-S4

J7,P6 - Power
Center Pole is +9VDC

P5 - Lab Power

J10,J9 - Audio Out

J12,J11 - Audio In

RS-232,J5
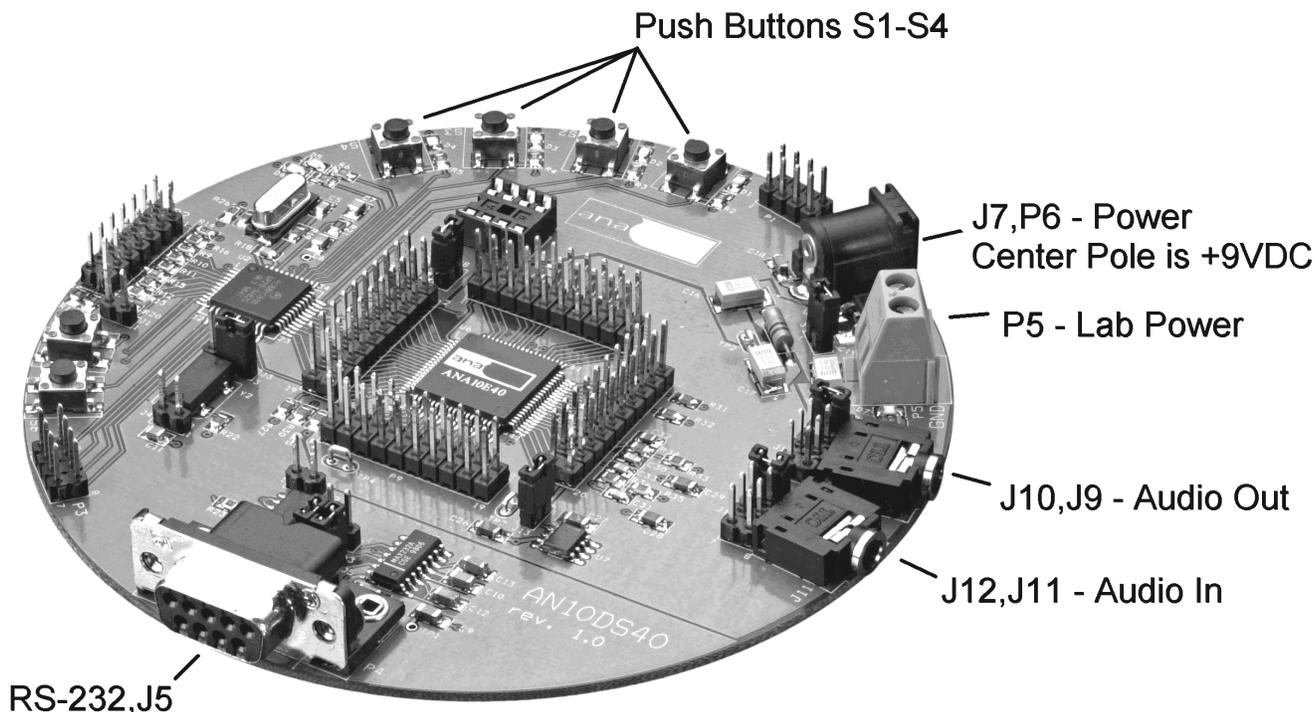
Quick Start
For a complete explanation of all the features of the board and how to use it fully, please refer to the AN10DS40 User Manual. But for a quick start, just follow these few basic steps:

Step 1 - Install AnadigmDesigner
Install AnadigmDesigner from either a CD or using the image downloaded off our web site.

Step 2 - Install Shorting Blocks
Short J10 pairs 1/2, 3/4, 6/8. (5 & 7 are open.) The Audio Out stereo mini-jack (J9) is now ready to supply a signal to powered speakers.

Short J12 pairs 1/2, 3/4, 5/6. Do not short 7/8. The Audio In stereo mini-jack (J11) is now ready to accept a signal from a radio, CD or MP3 player.

Step 3 - Connect Power
Option 1   Install a shorting block on J7 and connect a 9VDC wall transformer supply to P6. **The center pin of P6 is the + side.**

Option 2   Remove the shorting block from J7 and connect a regulated 5VDC lab supply to the P5 screw terminals with the polarity as indicated on the board. **Use a $^3/_4$ amp in-line fuse.**

If power is getting to the board, the green LED adjacent to P5 will illuminate.

Step 4 - Audio Test
a.   Connect powered speakers to J9.
b.   Connect an audio source to J11. A radio, sound card output, CD or MP3 player will work fine.
c.   Play some sound file (or turn on the radio).
d.   Press Push Button S2 - you should now hear your audio file.
e.   Press Push Button S1 - you should now hear a (loud) test tone.

The S1-S4 FPAA configurations are stored in the microcontroller's Flash memory. The user manual fully explains how to store your own custom configurations in the on-board Flash.

Step 5 - Connect RS-232

Using a standard RS-232 cable, connect the board to a free serial port on your PC. Typically J5 with pairs 1/2 and 3/4 shorted works fine. If you happen to be using a null modem cable, then instead short pairs 1/3 and 2/4. This setting swaps TX and RX.

Step 6 - Start AnadigmDesigner

Start up AnadigmDesigner on your PC. Use the Settings → Serial Port pull down menu selection to tell AnadigmDesigner which serial port you connected up to in Step 5.

Step 7 - Open a Design File

Using the File → Open pull down menu selection, load "LA-RA LC-RC Simple Gain Circuit.ckt" into AnadigmDesigner.

Step 8 - Download the New Configuration

The configurations exercised in Step 4 came from the companion microcontroller's Flash memory. This is handy for stand alone operation, but usually you'll instead want to download from AnadigmDesigner. Use either the "ctrl-w" keyboard shortcut or left mouse click over the "Download Configuration Data" icon.

During download, the cursor will turn into an hour glass; though it only takes about one second to download a complete configuration. The cursor will revert back when the download is complete.

The new version of your audio circuit should now be functioning.

Step 9 - Modify the Design

A simple modification would be to adjust the gain parameter. Simply do a right mouse click while the cursor is positioned over one of the G01 IPmodules. This will bring up a "Set IPmodule Parameters" dialog box. Adjust the gain setting to your liking and hit the "OK" button. Ctrl-w again to download this new version of the design to the AN10E40.

Step 10 - Play

Have fun. After you've had a bit of fun, take some time to read the AN10E40 Data Manual and the AnadigmDesigner and AN10DS40 User Manuals. Next, throw away your soldering iron… welcome to programmable analog.

Step 11 - Win

FPAA technology is going to let you get your next analog design out to market faster, adapt quicker and do some amazing things other analog systems just can't do.

Contact Us

Be sure to register yourself at our web site so we can keep you supplied with the latest software updates and IPmodule library additions.

WEB

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