

Hardware Configuration Update for EVAL-ADV7842-7511(P) Revision 1.0 / 1.1 PCBs

Issue 1: Component Video

Problem:

Component video does not work using connector J9

Cause:

Due to case-insensitivity in the PCB layout tool used, the schematic nets Pb / PB and Pr / PR are actually shorted together on the PCB so they do not match the schematic. This causes component signals for Pb and Pr to bypass the signal conditioning components. The ADV7842 is not meant to take in these signals without the scaling and AC coupling provided by the input circuit. This problem is specific to this revision of PCB and not the ADV7842.

Solution:

Use the VGA J7 connector with a Component->VGA cable to input component to the board. This cable should have shipped with the board. Please contact us on the EngineerZone if it did not. To use component:

On EVAL-ADV7842-7511:

- 1) Open a terminal window
- 2) Connect your source to the VGA connector with the cable
- 3) At the command prompt type "vga" and hit enter. It should come up but be green.
- 4) At the command prompt type "wri2c 40 02 63" and hit enter. It should be correct now

On EVAL-ADV7842-7511P:

- 1) Open a terminal window
- 2) Connect your source to the VGA connector with the cable
- 3) At the command prompt type "startrep" and hit enter
- 4) At the command prompt type "vga" and hit enter. It should come up but be green.
- 5) At the command prompt type "wri2c 40 02 63" and hit enter. It should be correct now

For more information: <http://ez.analog.com/docs/DOC-1681>