ZedBoard Fan Kit Installation Instructions
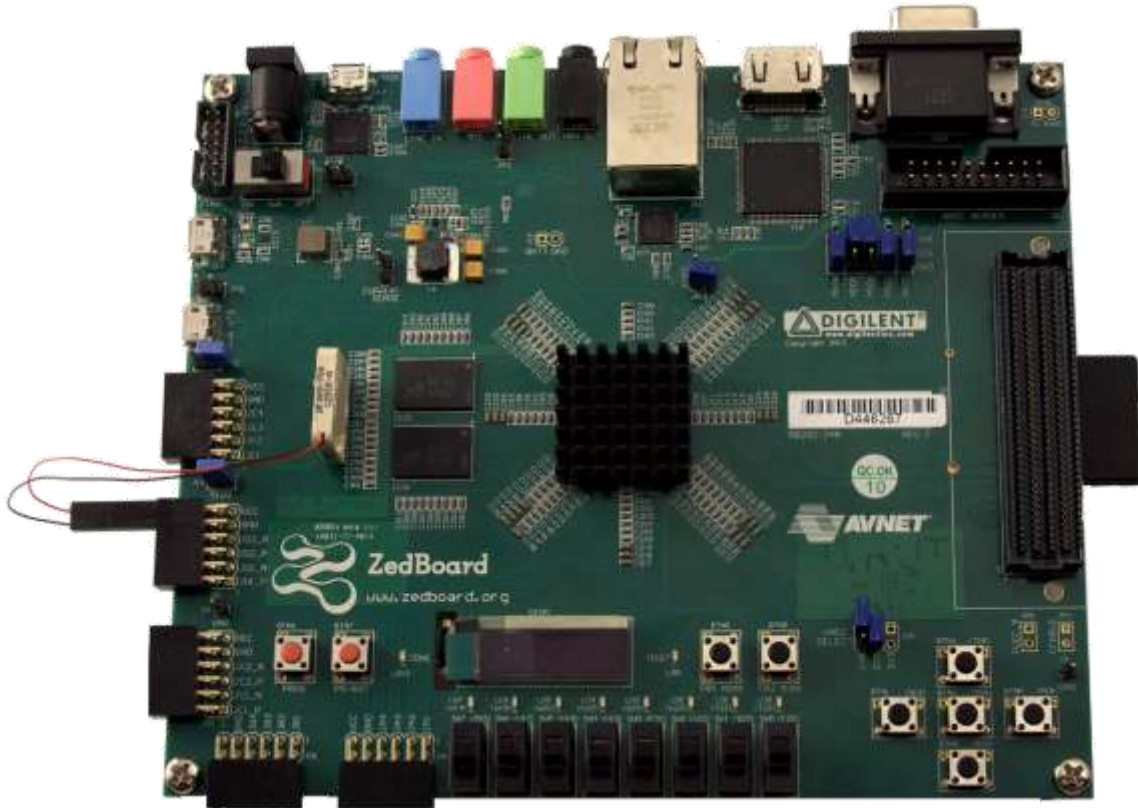

Match 7, 2013

Overview

ZedBoard is a low cost development platform for the Zynq™-7000 All Programmable System on Chip. ZedBoards now ship with a heat sink installed on the Zynq device. In some circumstances where the device is being heavily utilized, for example the Software Defined Radio (SDR) Kit, additional thermal relief is required to keep the device below the maximum operating junction temperature of 85°C specified by the Zynq-7000 All Programmable datasheet. This document defines the procedure for adding the fan to the ZedBoard.

Procedure

Included in the Fan Kit is a Sunon 3.3V compatible fan which has leads that are terminated to a 2 pin header. That header can be plugged into one of the expansion PMOD headers available on ZedBoard. Also included is a strip of double sided tape.
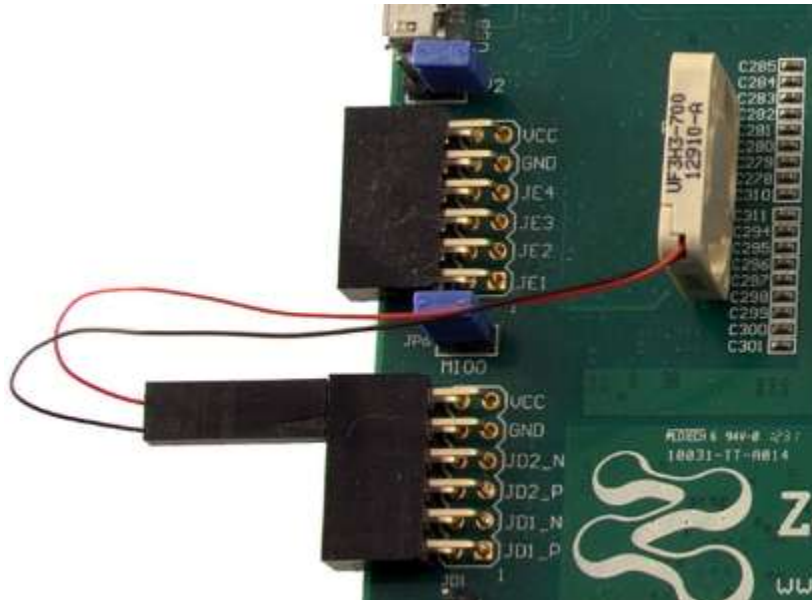
To install the fan:

- Place the double sided tape underneath the Power LED to the left of IC25 and IC26.
- Place the fan down on the tape as shown in the picture above. Be sure that the "open blade" side of the fan faces the board edge, away from the heatsink.

Open Blade side shown here

- That will insure that air flows across the Zynq device. If you aren't sure which way is correct, plug into the PMOD connector and put your hand in front of the fan to determine which way the air flows.

- Plug the connector into the top pins of the PMOD connector as illustrated in the picture

- The Red wire should connect to VCC, which is labeled in silk screen on the board, and the Black wire connects to Ground which is also indicated on the silkscreen. Once plugged in, no further action is required. When the board powers up, the fan will run.

Purchasing Information

Information on purchasing the Avnet 3.3V Fan Assembly for ZedBoard can be found on the following websites.

- www.zedboard.org/accessories

- http://www.em.avnet.com/en-us/design/drc/Pages/Avnet-3-3V-Fan-Assembly.aspx

Revision History

Version	Date	Author	Details
1.0	10/26/2012	CA	Initial release
1.1	3/7/2013	MB	Added Purchasing Information