ZedBoard[™]

XVNET Reach Further[™]

GETTING STARTED

- 1. Connect 12 V power to barrel jack (J20).
- Connect the UART port of ZedBoard[™] (J14) to a PC using the MicroUSB cable.
- 3. Insert the included SD Card into J12.
- Turn power switch (SW8) to ON. Board will power on. Green Power Good LED (LD13) should illuminate.
- Wait approximately 15 seconds. The blue Done LED (LD12) should illuminate, and a default image will be displayed on the OLED (DISP1).
- If the amber USB-Link Status (LD11) does not flicker to indicate activity, instructions for downloading the CY7C64225 USB-to-UART driver can be found on the website listed below.
- 7. Use Device Manager to determine the COM Port. Open a Terminal Program, configure to 115200/8/n/1/n.
- 8. Cycle power by turning the power switch (SW8) from ON to OFF and then back ON.
- In the Terminal Window, a simple Linux image should boot with functionality that demonstrates the basic capabilities of ZedBoard[™].
- 10. When you are done using Linux, run the command "poweroff" and then switch off ZedBoard".

Please visit www.zedboard.org/Support/Documentation for the complete Getting Started Guide with detailed setup instructions and numerous example designs.

Features

- USB-OTG: To use USB peripheral devices with ZedBoard[™], install jumpers JP2 and JP3. To connect 2 or more devices, first connect a USB hub to the USB-OTG port.
- **ETHERNET:** After boot-up a dropbear ssh server, fttpd FTP server, and a httpd HTTP server will run. Refer to the documentation on these servers if you are interested in using them. A default website is hosted on the httpd server that can be reached at the static IP: 192.168.1.10.
- VGA: A test pattern is driven on the VGA connector by the programmable logic.
- **SWITCHES/LEDS:** Scripts are included for writing to the LEDs and reading the state of the switches. To read the state of the switches, run the command: "read_sw." Control the LEDs with command: "write_led <8-bit value>". To turn all 8 LEDs on, use command: "write_led 0xFF".
- OLED DISPLAY: A default image should be displayed on the OLED after Linux has finished booting. In order to prolong the life of the OLED display, the manufacturer suggests that a specific powerdown sequence be used. Running the poweroff command before switching ZedBoard[™] off will ensure that this procedure is correctly followed.

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