GETTING STARTED

1. Connect 12 V power to barrel jack (J20).
2. Connect the UART port of ZedBoard (J14) to a PC using the MicroUSB cable.
3. Turn power switch (SW8) to ON. Board will power on. Green Power Good LED (LD13) should illuminate.
4. Wait approximately 15 seconds. The blue Done LED (LD12) should illuminate, and a default image will be displayed on the OLED (DISP1).
5. 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.
6. Use Device Manager to determine the COM Port. Open a Terminal Program, configure to 115200/8/n/1/n.
7. Cycle power by turning the power switch (SW8) from ON to OFF and then back ON.
8. In the Terminal Window, a simple Linux image should boot with functionality that demonstrates the basic capabilities of ZedBoard.
9. When you are done using Linux, run the command “poweroff” and then switch off ZedBoard.

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, ftptd 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.

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


1. Limited License. Avnet grants You, the Customer, (“You” “Your” or “Customer”) a limited, non-exclusive, non-transferable, license to: (a) use the Product for Your own internal testing, evaluation and design efforts at a single Customer site; (b) create a single derivative work based on the Product using the same semiconductor supplier product or product family as used in the Product; and (c) make, use and sell the Product in a single production unit. No other rights are granted and Avnet and any other Product licensor reserves all rights not specifically granted in this License Agreement. Except as expressly permitted in this License, neither the Design Kit, Documentation, nor any portion may be reverse engineered, disassembled, decompiled, sold, donated, shared, leased, assigned, sublicensed or otherwise transferred by Customer. The term of this License is in effect until terminated. Customer may terminate this license at any time by destroying the Product and all copies of the Product Documentation.

2. Changes. Avnet may make changes to the Product or Product Documentation at any time without notice. Avnet makes no commitment to update or upgrade the Product or Product Documentation and Avnet reserves the right to discontinue the Product or Product Documentation at any time without notice.

3. Limited Warranty. ALL PRODUCTS AND DOCUMENTATION ARE PROVIDED “AS IS” WITHOUT WARRANTY OF ANY KIND. AVNET MAKES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE PRODUCTS AND DOCUMENTATION PROVIDED HEREUNDER. AVNET SPECIFICALLY DISCLAIMS THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY AGAINST INFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHT OF ANY THIRD PARTY WITH REGARD TO THE PRODUCTS AND DOCUMENTATION.

4. LIMITATIONS OF LIABILITY. CUSTOMER SHALL NOT BE ENTITLED TO AND AVNET WILL NOT LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND OR NATURE, INCLUDING, WITHOUT LIMITATION, BUSINESS INTERRUPTION COSTS, LOSS OF PROFIT OR REVENUE, LOSS OF DATA, PROMOTIONAL OR MANUFACTURING EXPENSES, OVERHEAD, COSTS OR EXPENSES ASSOCIATED WITH WARRANTY OR INTELLECTUAL PROPERTY INFRINGEMENT CLAIMS, INJURY TO REPUTATION OR LOSS OF CUSTOMERS, EVEN IF AVNET HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE PRODUCTS AND DOCUMENTATION ARE NOT DESIGNED, AUTHORIZED OR WARRANTED TO BE SUITABLE FOR USE IN MEDICAL, MILITARY, AIR CRAFT, SPACE OR LIFE SUPPORT EQUIPMENT OR IN APPLICATIONS WHERE FAILURE OR MALFUNCTION OF THE PRODUCTS CAN REASONABLY BE EXPECTED TO RESULT IN A PERSONAL INJURY, DEATH OR SEVERE PROPERTY OR ENVIRONMENTAL DAMAGE. INCLUSION OR USE OF PRODUCTS IN SUCH EQUIPMENT OR APPLICATIONS, WITHOUT PRIOR AUTHORIZATION IN WRITING OF AVNET, IS NOT PERMITTED AND IS AT CUSTOMER’S OWN RISK. CUSTOMER AGREES TO FULLY INDEMNIFY AVNET FOR ANY DAMAGES RESULTING FROM SUCH INCLUSION OR USE.

5. LIMITATION OF DAMAGES. CUSTOMER’S RECOVERY FROM AVNET FOR ANY CLAIM SHALL NOT EXCEED CUSTOMER’S PURCHASE PRICE FOR THE PRODUCT GIVING RISE TO SUCH CLAIM IRRESPECTIVE OF THE NATURE OF THE CLAIM, WHETHER IN CONTRACT, TORT, WARRANTY, OR OTHERWISE.

6. INDEMNIFICATION. AVNET SHALL NOT BE LIABLE FOR AND CUSTOMER SHALL INDEMNIFY, DEFEND AND HOLD AVNET HARMLESS FROM ANY CLAIMS BASED ON AVNET’S COMPLIANCE WITH CUSTOMER’S DESIGNS, SPECIFICATIONS OR INSTRUCTIONS, OR MODIFICATION OF ANY PRODUCT OR PRODUCT DOCUMENTATION BY CUSTOMER.

7. U.S. Government Restricted Rights. The Product and Product Documentation are provided with “RESTRICTED RIGHTS.” If the Product and Product Documentation and related technology or documentation are provided to or made available to the United States Government, any use, duplication, or disclosure by the United States Government is subject to restrictions applicable to proprietary computer software as set forth in FAR 52.227-14 and DFAR 252.227-7013, et seq., its successor and other applicable laws and regulations. Use of the Product by the United States Government constitutes acknowledgment of the proprietary rights of Avnet and any third parties. No other governments are authorized to use the Product without written agreement of Avnet and applicable third parties.

8. Ownership. Licensee acknowledges and agrees that Avnet or Avnet’s licensors are the sole and exclusive owner of all rights expressly granted in this Agreement.

9. Intellectual Property. All trademarks, service marks, logos, slogans, domain names and trade names (collectively “Marks”) are the properties of their respective owners. Avnet disclaims any proprietary interest in Marks other than its own. Avnet and AV design logos are registered trademarks and service marks of Avnet, Inc. Avnet’s Marks may be used only with the prior written permission of Avnet, Inc.

10. General. The terms and conditions set forth in the License Agreement or at www.em.avnet.com will apply notwithstanding any conflicting, contrary or additional terms and conditions in any purchase order, sales acknowledgement or other document. If there is any conflict, the terms of this License Agreement will control. This License may not be assigned by Customer, by operation of law, merger or otherwise, without the prior written consent of Avnet and any attempted or purported assignment shall be void.

Copyright © 2012, Avnet, Inc. All rights reserved. Published by Avnet Electronics Marketing, a group of Avnet, Inc. Avnet, Inc. disclaims any proprietary interest or right in any trademarks, service marks, logos, domain names, company names, brands, product names, or other form of intellectual property other than its own. AVNET and the AV and ZedBoard logos are registered trademarks of Avnet, Inc. PN: GSC-AES-Z7EV-7Z020-G-14.1-V1