

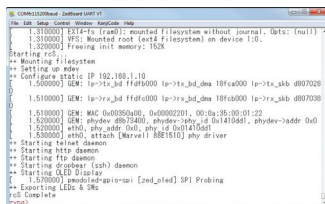
GETTING STARTED

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. Insert the included SD Card into J12.
4. Turn power switch (SW8) to ON. Board will power on. Green Power Good LED (LD13) should illuminate.
5. Wait approximately 15 seconds. The blue Done LED (LD12) should illuminate, and a default image will be displayed on the OLED (DISP1).
6. 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.
9. 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.

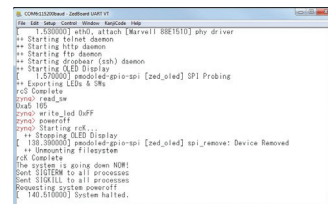
Features

- **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, ftpd 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.



```

ZedBoard: Linux boot v1
[ 1.510000] systemd[1]: Mounted /tmp/without-journal. (pts: (null))
[ 1.510000] ufs: Mounted root (aufs filesystem) on device 1:0.
[ 1.520000] Freeing init memory: 162K
Starting rfs.
** Mounting filesystem
** Setting up ndrv: IP 192.168.1.10
** Configure static: ip->ra_jd ffa0000 ip->ra_jd_ama 10fa000 ip->ra_abb 0807020
[ 1.550000] GEM: ip->ra_jd ffa0000 ip->ra_jd_ama 10fa000 ip->ra_abb 0807020
[ 1.510000] GEM: MAC Da0000200, Da0000210, 00:0a:35:00:01:22
[ 1.520000] GEM: phydev-drv000, phydev-cdev_0d f041000, phydev-baddr_0d0
[ 1.520000] eth0, phy_addr_0x0, phy_id f041000
** Starting telnet daemon
** Starting ftp daemon
** Starting dropbear (ssh) daemon
** Starting OLED Display
[ 1.600000] emulad-gpio-spi [zed_olad] SPI Probing
** Exporting LEDs & SWs
** Complete
bye
  
```



```

ZedBoard: Linux boot v1
[ 1.520000] eth0: attach [kver11 08E1510] phy driver
** Starting telnet daemon
** Starting ftp daemon
** Starting dropbear (ssh) daemon
** Starting OLED Display
** Exporting LEDs & SWs
** Complete
bye
[ 1.530000] emulad-gpio-spi [zed_olad] SPI Probing
** Exporting LEDs & SWs
** Complete
bye
[ 1.530000] emulad-gpio-spi [zed_olad] spi_remove: Device Removed
** Unmounting filesystem
** Starting rfs.
** Starting OLED Display
[ 1.530000] emulad-gpio-spi [zed_olad] spi_remove: Device Removed
** Complete
The system is going down NOW!
Send SYSTEMD to all processes
and SIGKILL to all processes
Requesting system poweroff
[ 1.600000] System halted.
  
```

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