

**Kit Contents:**

- DK-TS-LPC3250 Touch Screen Kit
- 5V Power Supply
- Segger Mini-JTAG Debugger
- USB Flash Drive
- Documentation
- Serial Cable (Female DB9 to Female DB9)
- Ethernet Cable
- Optional LCD panels (5x7, 3.5, VGA, QVGA, etc)

**Startup Procedure**

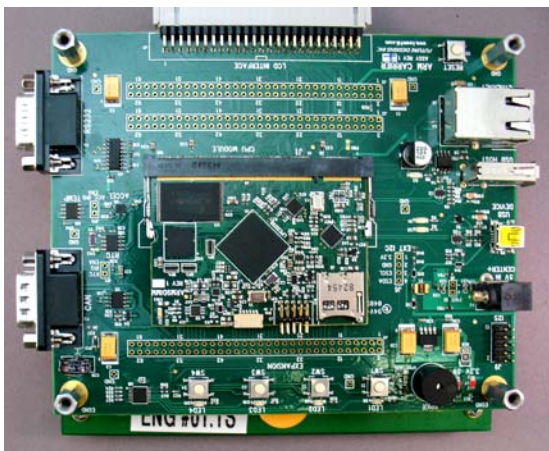
1. Layout the components needed to utilize the kit



5V Power Supply



Ethernet Cable



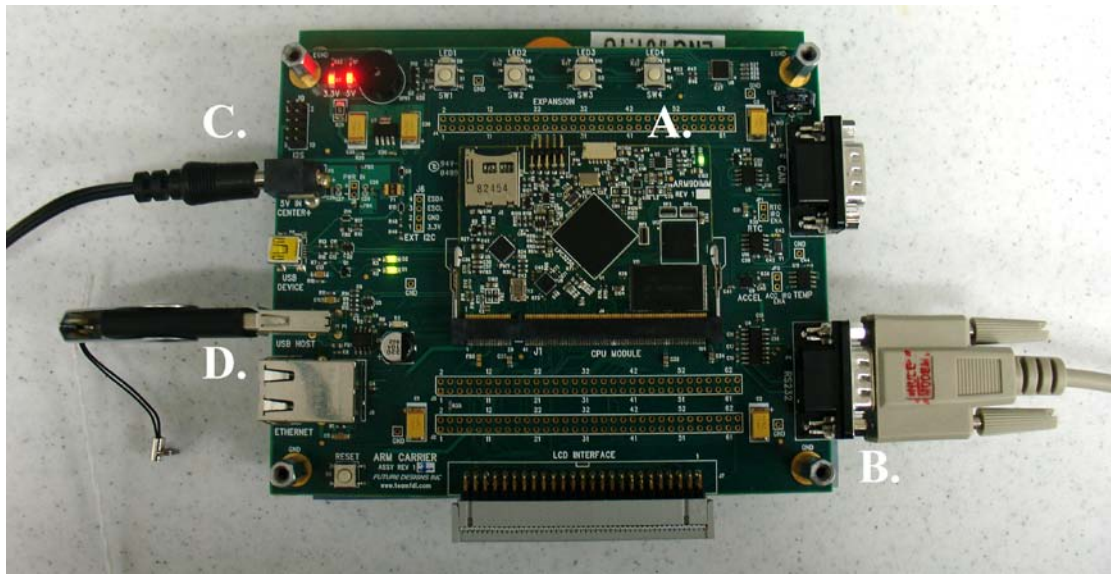
DK-TS-LPC3250 Touch Screen Kit



Serial Cable (Female DB9 to Female DB9)

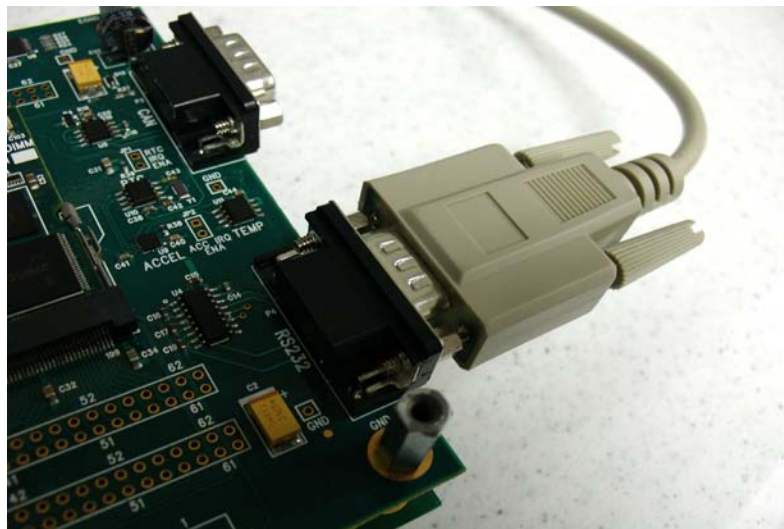


USB Flash Drive

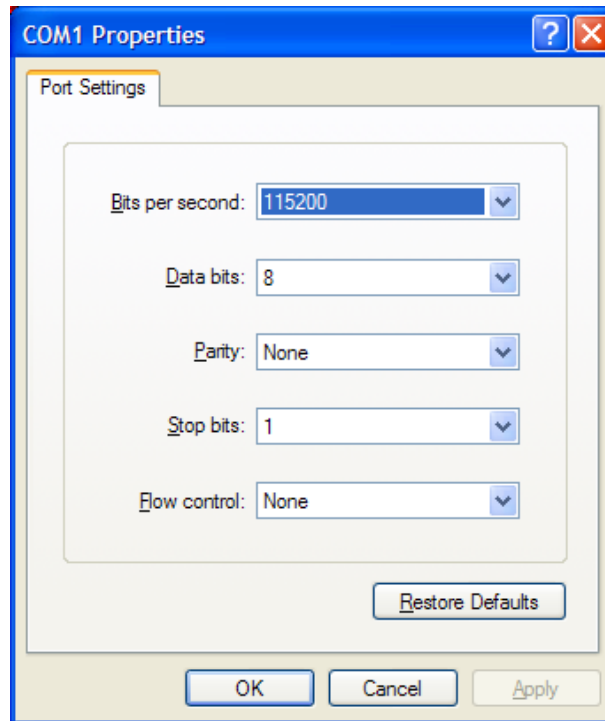


- A. DK-TS-KIT
- B. Serial Cable
- C. Power Supply
- D. USB Flash Drive

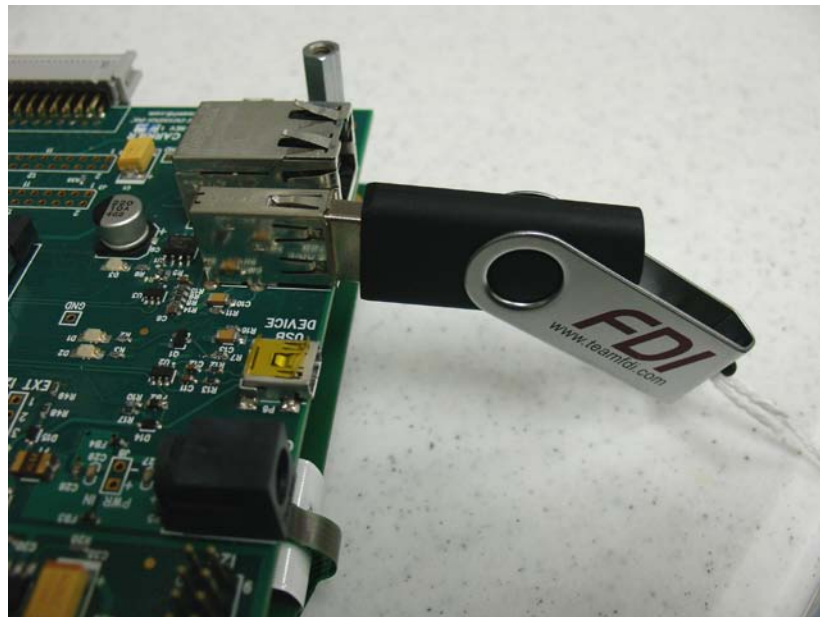
2. Connect the serial cable – this is the console port FOR Linux and should be connected from the DK-TS-KIT Serial Port (P4) to an available serial port on your PC



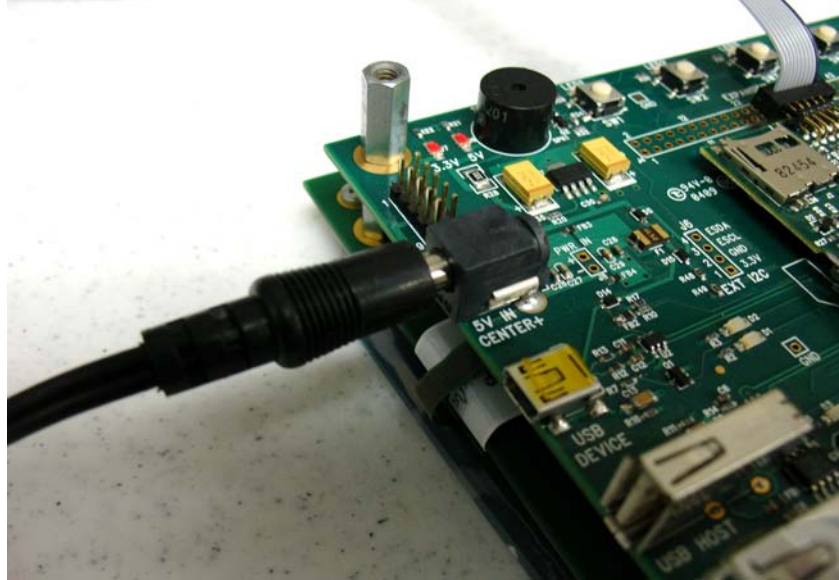
3. Open and configure PC serial communications to 115Kbaud, No Stop, 8Data, 1 Parity (using Hyper Terminal or similar program)



4. Connect the USB Flash Drive (USB Host P1) – for use with the slide show, this is not required if the slideshow demo is not desired. Must be plugged in at boot for slideshow to work properly.



5. Connect the power supply – connect the 5V power supply to the DK-TS-KIT power connector (P5). The power supply **MUST** be a regulated 5VDC, 2.1mm, center positive power supply. The use of **ANY** other power supply may result in damage to the DK-TS-KIT and subsequently, void the warranty.



6. Boot up process should be displayed on the PC Serial Communications Window

```
Direct_1 - HyperTerminal
File Edit View Call Transfer Help
[Icons]
SIBL 1.02 (07/29/2009) - 266000000 Hz
Copyright 2009, Future Designs, Inc.
-----
DDR:  SDRAMCLK_CTRL = 0003CAA6
DDR:  DDR_LAP_NOM   = 0000002B (43)
DDR:  DDR_LAP_COUNT = 0000002B (43)
DDR:  DDR_CAL_DELAY = 00000009 (9)

LCD:  Turning on ... Done
NAND:  Initializing MLC ... OK
LCD:  Drawing splash screen ... OK
NAND:  Initializing MLC ... OK
UBOOT: Loading to address 0x81FC0000 ... OK
UBOOT: Running at 0x81FC0000...

U-Boot 1.3.3 (May 27 2009 - 03:47:53)

DRAM:  32 MB
NAND:  512 MiB
In:    serial
Out:   serial
Err:   serial
Hit any key to stop autoboot: 1

Connected 0:00:21  ANSIIW  115200 8-N-1  SCROLL  CAPS  NUM  Capture  Print echo
```

(initial bootup screen)



```
Direct_1 - HyperTerminal
File Edit View Call Transfer Help

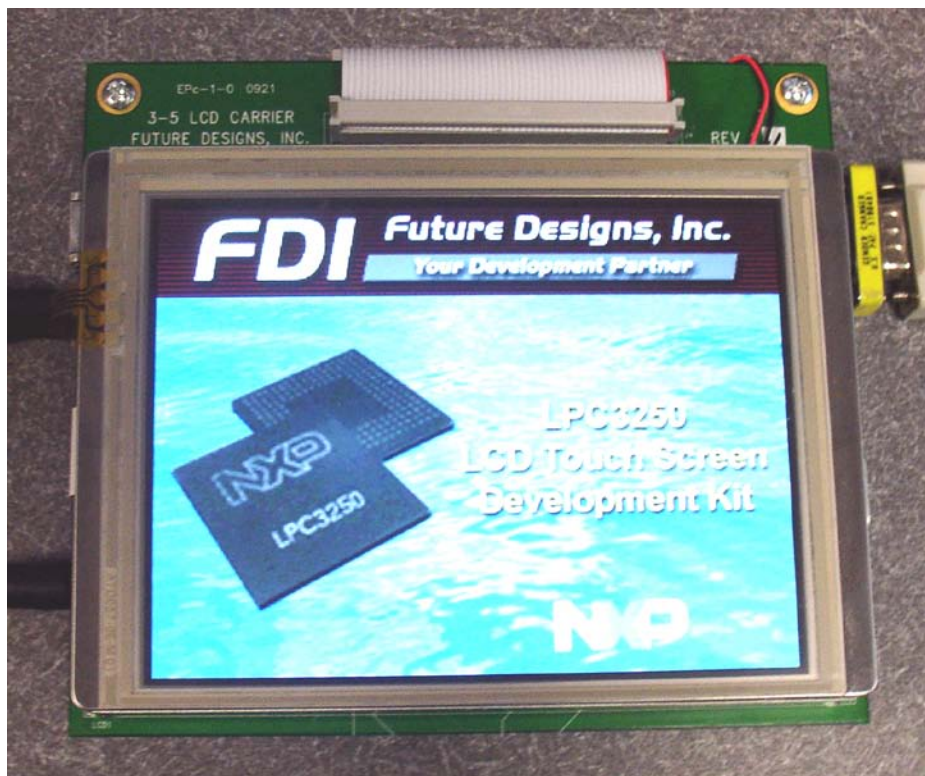
drivers/rtc/hctosys.c: unable to open rtc device (rtc0)
RAMDISK: Compressed image found at block 0
VFS: Mounted root (ext2 filesystem).
Freeing init memory: 124K
init started: BusyBox v1.11.2 ()
starting pid 311, tty '': '/etc/rc.d/rcS'
Mounting /proc and /sys
Setting the hostname to nxp
Mounting filesystems
scsi 0:0:0:0: Direct-Access    Generic Flash Disk      8.07 PQ: 0 ANSI: 2
sd 0:0:0:0: [sdal] 2000896 512-byte hardware sectors (1024 MB)
sd 0:0:0:0: [sdal] Write Protect is off
sd 0:0:0:0: [sdal] Assuming drive cache: write through
sd 0:0:0:0: [sdal] 2000896 512-byte hardware sectors (1024 MB)
sd 0:0:0:0: [sdal] Write Protect is off
sd 0:0:0:0: [sdal] Assuming drive cache: write through
sda:<7>usb-storage: queuecommand called

sd 0:0:0:0: [sdal] Attached SCSI removable disk
Starting syslogd and klogd
Running sysctl
Setting up networking on loopback device:
Setting up networking on eth0:

Connected 0:01:23  ANSIW  115200 8-N-1  SCROLL  CAPS  NUM  Capture  Print echo
```

(Linux booting)

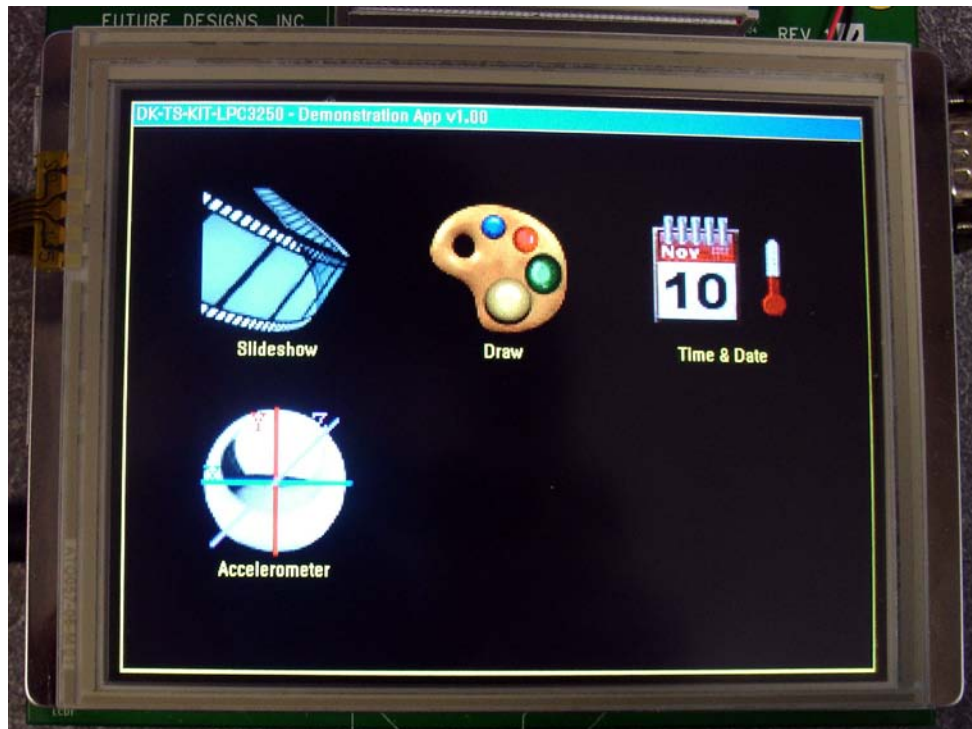
7. The following title screen should appear while booting:



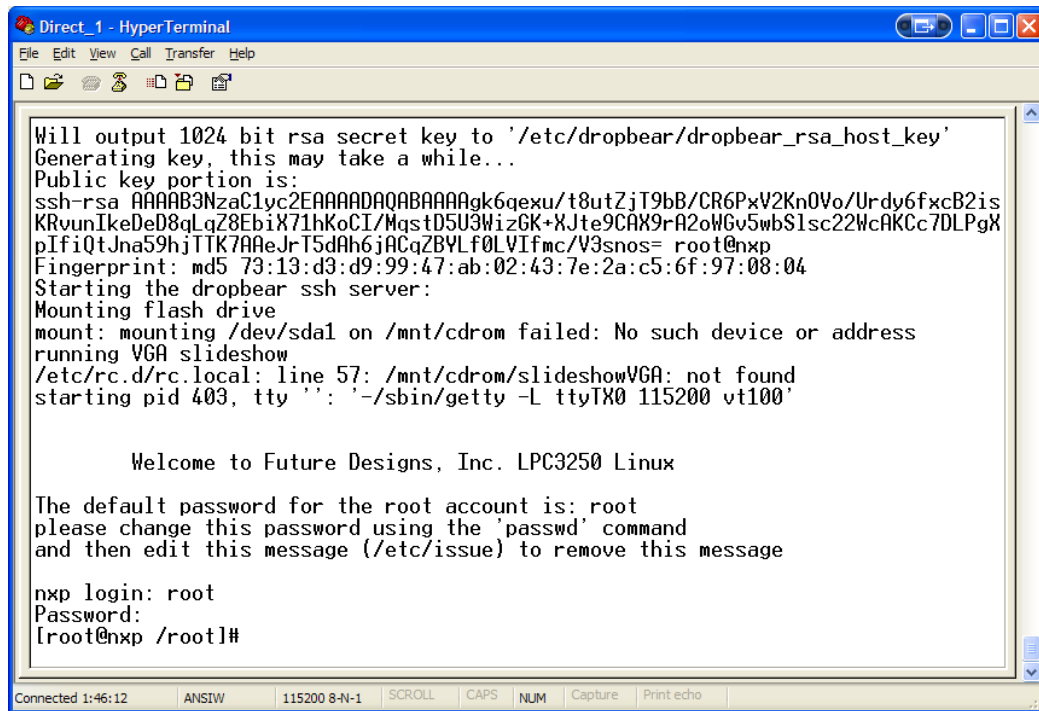
8. After about 1 minute, the screen will change and a picture of the Linux Tux logo will appear in the upper left:



9. The title screen will appear again briefly followed by the DK-TS-KIT Demonstration Application. Linux is now fully booted.



10. In addition to the demonstration application, you can log into the Linux console. Go back to the terminal screen and login with 'root' and password of 'root'.



```
Will output 1024 bit rsa secret key to '/etc/dropbear/dropbear_rsa_host_key'
Generating key, this may take a while...
Public key portion is:
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQgk6qexu/t8utZjt9bB/CR6PxV2Kn0Vo/Urdu6fxcB2is
KRvunIkeDeD8qLqZ8EbiX71hKoCI/MqstD5U3WizGK+XJte9CAX9rA2oWGu5wbS1sc22WcAKCc7DLPgX
pIfiQtJna59hjTK7AAeJrT5dAh6jACqZBYLf0LVIfmc/V3snos= root@nxp
Fingerprint: md5 73:13:d3:d9:99:47:ab:02:43:7e:2a:c5:6f:97:08:04
Starting the dropbear ssh server:
Mounting flash drive
mount: mounting /dev/sda1 on /mnt/cdrom failed: No such device or address
running VGA slideshow
/etc/rc.d/rc.local: line 57: /mnt/cdrom/slideshowVGA: not found
starting pid 403, tty '': '-/sbin/getty -L ttyTX0 115200 vt100'

Welcome to Future Designs, Inc. LPC3250 Linux

The default password for the root account is: root
please change this password using the 'passwd' command
and then edit this message (/etc/issue) to remove this message

nxp login: root
Password:
[root@nxp /root]#
```

(Linux booted and logged in)