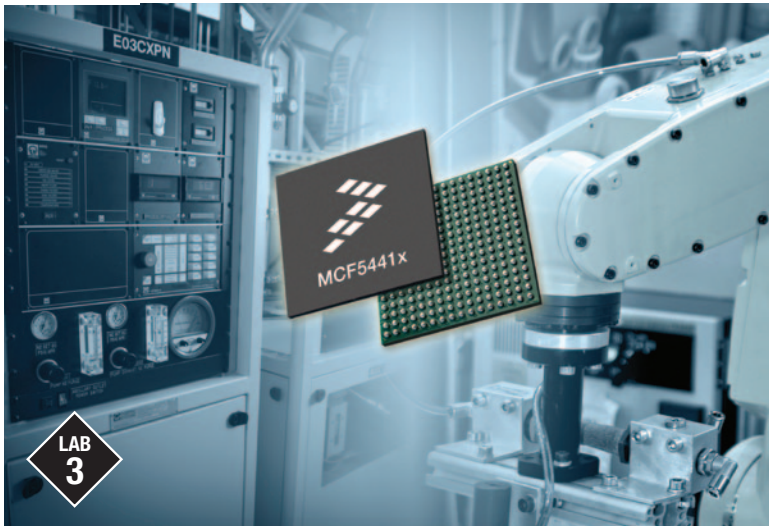




or TWR-MCF5441X

TOWER SYSTEM



LAB
3

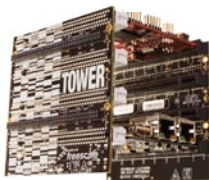
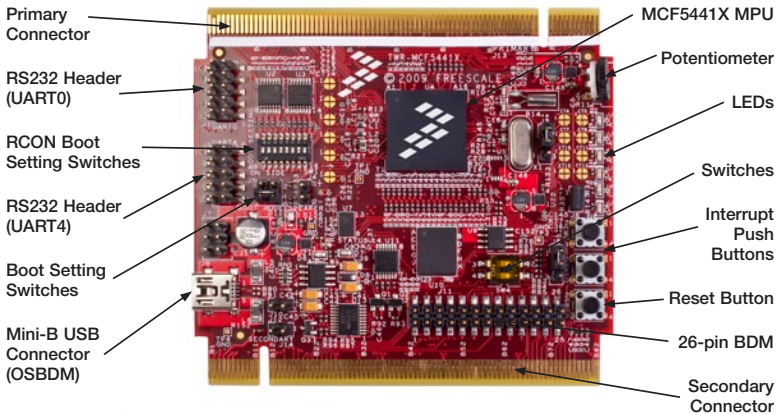
MCF5441X

Linux[®] — Web Server
using Linux OS





Get to know the TWR-MCF5441x



TWR-MCF5441X-KIT Freescale Tower System

The TWR-MCF5441X module is part of the Freescale Tower System, a modular development platform that enables rapid prototyping and tool re-use through reconfigurable hardware. Take your design to the next level and begin constructing your Tower System today.



Lab Tutorial for Linux Web Server

This document explains the out-of-box demo of the Freescale TWR-MCF5441X system. The TWR-MCF5441X system is a Freescale tower compatible system and based on ColdFire™ Architecture microprocessor MCF5441X. This document presumes that the reader has already gone through the Quick Start Guide and followed the steps to setup the hardware system ready. If not, please refer to the Quick Start Guide first.

How to start Linux

The TWR-MCF5441X module will start the Linux demo when the user provides power to the Tower System. The U-boot boot loader will bring up and automatically count down from 5 to bring up the Linux Kernel. If any key is pressed during the countdown, countdown stops and goes to U-boot prompt. Enter the following command on the U-Boot command line to start the Linux Kernel.

U-Boot Command: “-> **run jffs2boot**”

How to run the web page from TWR-MCF5441X Linux target

Here is the guide to launch the webpage preinstalled in the system. There is a simple example webpage installed in the system. User opens a web browser such as Internet Explorer®, Chrome, Opera™, Firefox, etc from Host PC. Type the target IP address of TWR-MCF5441X into the URL of web browser, and the preinstalled example web page will be displayed.

URL: `http://<target IP address>`

Replace `<target IP address>` with the IP address assigned to the TWR-MCF5441X

Use the following command to display the IP address of the TWR-MCF5441X:

```
# ifconfig
```



Default Example Web Page



How to copy the web page to TWR-MCF5441X Linux target

Option 1: TFTP

1. Copy the modified html file to TFTP server from Host PC folder.
2. In the Linux target, change directory to /dev/shm
cd /dev/shm
3. Download the new web page from TFTP server.
tftp -r index.html -g <tftp server IP address>
4. Copy the new webpage file to Linux Target Web folder.
cp index.html /var/www/html/index.html
5. Refresh the web browser from the Host PC. The new web page will be loaded and displayed.

Option 2: USB

- 1) Copy modified "index.html" to USB stick.
- 2) Insert the USB stick into the High-Speed mini-AB Dual Role USB Port
- 3) Type the following commands to enable the USB port:
modprobe fsl_usb2_otg
modprobe ehci-hcd
- 4) Browse to the location of the new index.html file on the USB stick
cd /mnt/sda1/
- 5) Copy the new webpage to the Linux Target Web folder
cp index.html /var/www/html/index/html
- 6) Refresh the web browser from the Host PC. The new web page will be loaded and displayed.



About the Tower System

TWR-MCF5441X
Module

Mini-B USB
Connector

Primary
Elevator

Secondary
Elevator

TWR-SER2
Module

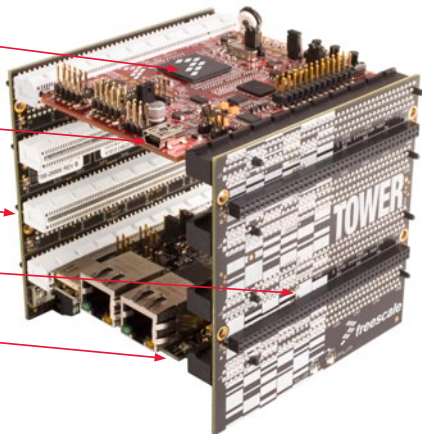


Figure 1: Tower System

Learn more at www.freescale.com/tower.

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