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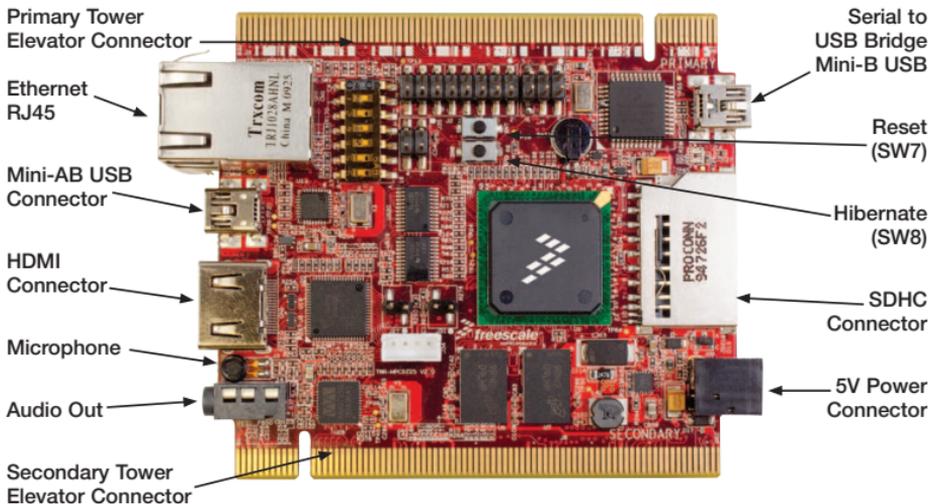


TWR-MPC5125

For high-resolution display applications



Get to know the TWR-MPC5125



Freescale Tower System

The TWR-MPC5125 module is a single board computer as well as a 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.

Step-by-Step Installation Instructions

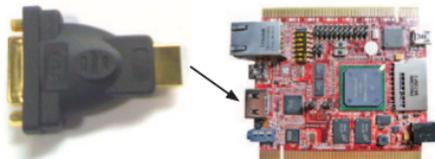
In this Quick Start Guide, you will learn how to set up the TWR-MPC5125 module and run the default demonstration software. The following instructions are for Windows® XP.

STEP
1

Connect the HDMI cable

Using the HDMI-to-DVI-D cable provided, connect the HDMI port on the TWR-MPC5125 to a DVI-D port on a display monitor. (Alternatively, connect the HDMI port to an HDMI port on a monitor. Cable not provided.)

Note: DVI -to-VGA is not supported.

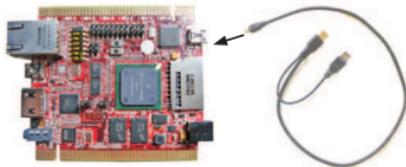


STEP
2

Connect the USB cable for the Serial-to-USB bridge to provide power

Power the board from a host computer by plugging in the dual-port USB cable. Insert the two Standard-A plugs into two USB ports a host computer. Then insert the Mini-B side of the cable into the Mini-B connector (J19) which is next to the SDHC card slot.

(Alternatively, the board can be powered by a 5V barrel jack from a wall supply. The supply must be a center-hot configuration 2.1 mm jack and the voltage must be 5V. Cable not provided).



STEP
3

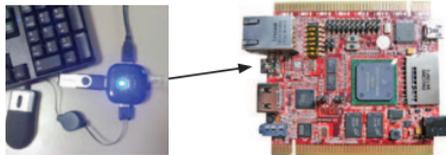
View video on the display

The board comes pre-programmed to automatically boot the LimePC™ Linux operating system with video demonstration application. *Stop Here or Continue on to LimeOS™ Linux desktop*

STEP
4

Connect a USB mouse and keyboard

Connect a USB mouse and USB keyboard to a USB hub and connect the hub to the Mini-AB connector (DOWN4) which is next to the RJ45 port.

STEP
5

Press Q on the keyboard or right-click on the mouse

The video demonstration application will close, revealing the LimeOS graphical desktop. Explore with the USB mouse and keyboard input.

STEP
6

Using the Serial-to-USB bridge

The Freescale MC9S08JM60 Serial to-USB bridge solution provides a RS-232 equivalent connection to the host computer through the USB communications device class. When plugged in and powered the USB connection will enumerate as a COM port on the PC.



To determine the COM port # for the connection, right click on the **My Computer** icon and select “Manage,” click **Device Manager**, find and expand ports (COM and LPT).

STEP
7

Install software driver

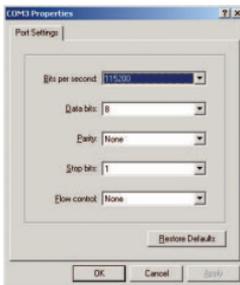
When the cable is plugged in the first time, the Found

New Hardware Wizard will start. Select the option Install from a list or specific location (Advanced), then select “Next.” Browse for the file Freescale_CDC_Driver.inf which is available on the DVD. Select “Next,” then “Finish.”

STEP
8

Open Microsoft® HyperTerminal or a terminal program of your choice

Select File > New Connection. Type a name for the new connection. Pick the COM port number for the connection found in step 4. Choose the following port settings: Bits per Second: 115200, Data bits: 8, Parity: None, Stop bit: 1, Flow control: None.



To make this the auto-boot option, type “**set bootcmd run mxboot**” and press “Enter.” Then type “**save**” to save this change to the U-Boot environment variables in the nand flash.

```
=> set bootcmd run mxboot
=> save
Saving Environment to NAND...
Erasing Nand...
Writing to Nand... done
=>
```

To change back to autoboot Linux, replace “**mxboot**” with “**nandboot**.”



Booting LimeOS Linux from the U-Boot terminal

Press the Reset button and type “**run nandboot**” at the U-Boot prompt

For more information, view the following documents:

- MQX Lab: How to build and load MQX applications
- Linux Lab: How to run pre-loaded applications in the LimeOS Linux demonstration software
- TWR-MPC5125 User’s Manual: Hardware configuration, U-Boot and Linux information
- MPC5125 Reference Manual and Data Sheet: MPC5125 information

For more information about other mobileGT families, visit www.freescale.com/mobilegt to get the latest lab tutorials, application notes, other supporting documents and learn about other training opportunities.

For more information on Tower System controllers and peripheral modules, visit www.freescale.com/tower. To become a member of the online Tower Geeks community, visit www.towergeeks.org.

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