

Installing Timesys Linux demonstrations on popular embedded dev kits

Demo Installation Guide for
USB flash drive / SD card / microSD card

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LinuxLink
by timesys®

Introduction

Goal

This guide is designed to help you download and deploy a Timesys-built demonstration image onto various popular embedded development kits.

Prerequisites

This guide is intended for use with Microsoft® Windows® based hosts.

You will need the following for the exercises in this tutorial:

Windows XP/Vista® PC	Host machine with SP3 and >250 MB free HD space
USB flash drive, SD card or microSD card	Media minimum GB requirements are dependent upon the size of the demo image
microSD card adapter (if applicable)	A device to read and write data to the microSD card
Development Kit	Hardware platform to run Linux demo
Demo image	Download a demo image from http://www.timesys.com/embedded-linux/demo-images

Additional Information / Assumptions

Your demonstration image downloaded from the Timesys website

(<http://www.timesys.com/embedded-linux/demo-images>) contains all necessary files to boot and run Linux and the various graphical demo applications on one of the applicable kits listed, below:

- Boundary Devices Nitrogen6X board with LCD touchscreen
- Freescale i.MX6 based SABRE Lite platform
- Freescale i.MX 6 based SABRE-SDP
- Freescale Vybrid TWR-VG65S10 with LCD touchscreen
- GizmoSphere Gizmo Explorer Kit
- TI Sitara AM335x SK (Starter Kit) with LCD touchscreen

Preparing the Hardware

The following steps will lead you through the process of transferring the demo image you downloaded to your USB flash drive, SD card or microSD card.

1. Insert your media (USB flash drive, SD card or microSD card) directly into your computer.
2. Download the Timesys-recommended image installer (*Win32DiskImager*) via the download link located on the Timesys demo images web page at
<http://www.timesys.com/embedded-linux/demo-images>.



IMPORTANT NOTE: Be sure to **back up any files on your media (USB flash drive, SD card or microSD card)** before running *Win32DiskImager* as it replaces everything on the media.

3. Using Windows Explorer, determine the drive mapped to the media (USB flash drive, SD card or microSD card). Typically, the media Drive will appear as a Removable Disk with a specific drive letter (i.e., H:).
4. Using Start->Run or by double-clicking on “Win32DiskImager.exe,” run the Win32DiskImager application from the location where you unzipped it (*Figure 1*).
NOTE: If you are running Windows Vista or newer, you should right-click on Win32DiskImager, and “Run as administrator” (*Figure 2*).



Figure 1. Running Win32DiskImager with Windows® XP

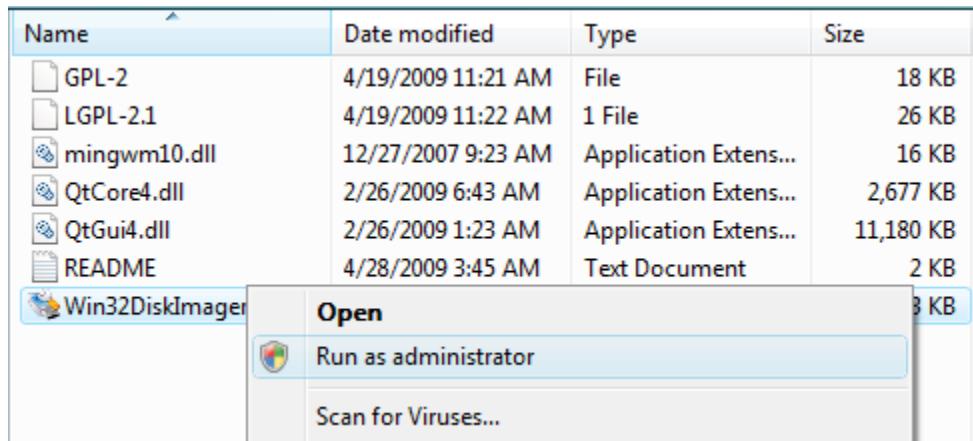


Figure 2. Starting Win32DiskImager with admin privileges (Windows® Vista or newer)

- Once Win32DiskImager runs, set the Image File location to point to the demo image file that you have downloaded. Pick the appropriate device drive id for the media (USB flash drive, SD card or microSD card) as shown in Figure 3.

NOTE: The location of your image file as well as the location of your media (USB flash drive, SD card or microSD card) will differ from that shown in the example below.

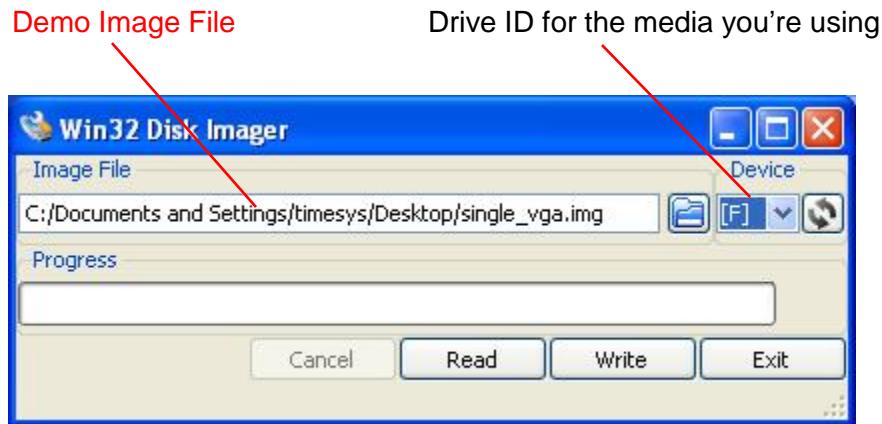


Figure 3. Flashing .img file on a USB flash drive, SD card or microSD card

- Click "Write." The process should take just few seconds to complete.



IMPORTANT NOTE: Incorrect selection of your media device (USB flash drive, SD card or microSD card) could result in corruption of other data devices attached to your computer.

- Safely remove the media (USB flash drive, SD card or microSD card) from your Windows host. There should be a "Safely Remove" icon in the system tray near the clock. Click on this icon, and select your media Drive. A message will prompt you when it is safe to remove the media.

Launch the Demo

To launch the demo:

- Make sure your development board is in the powered off state.
- Insert the media (USB flash drive, SD card or microSD card) into the development kit.
- Power up the board.