



IMAGE INSTALLATION GUIDE

VAB-600

Linux EVK v1.2.1



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Revision History

Version	Date	Remarks
1.00	5/19/2016	Initial release



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1. Introduction

This Image Installation Guide explains how to boot the Linux EVK system image on the VAB-600 board in order to begin evaluating the platform.

1.1. Package Contents

The **VAB-600_Linux_EVK_CL_v1.2.1.zip** file is a precompiled command line Debian image for evaluating the VAB-600 board.

1.2. Version Information and Supported Features

- U-Boot version: 1.1.4
- Kernel version: 3.0.8
- Evaluation image: Debian Wheezy 7.0
- Development based on VIA WM8950_Linux_BSP_1.00.02_121212
- Supports eMMC (default) or Micro SD boot
- Supports HDMI or LVDS single display (default HDMI output)
- Supports HDMI audio output
- Supports AcmePoint TFT-LCD resistive touch panel (through 4-wire interface)
AcmePoint 7" TP070C01 (800×480)
- Supports AUO LVDS resistive touch panel (through USB interface)
AUO 22" G220SVN01.0 (1680×1050)
- Supports COM1 debug port
- Supports CIR
- Supports Line-Out and Mic-In
- Supports USB: keyboard, mouse, flash disk, hard disk, UVC camera
- Supports 10M/100M Ethernet
- Supports EMIO-1533 USB Wi-Fi module
- Supports EMIO-2550 miniPCIe Mobile Broadband module
- Supports Watchdog, GPIO, and RTC wake-up

2. Image Development

This section explains the setup requirements for booting from the eMMC.

2.1. Booting from the eMMC

The first step is to insert a Micro SD card into the host machine and create a FAT formatted partition. Next, extract the **VAB-600_Linux_EVK_CL_v1.2.1.zip** file, and then copy the **bspinst** folder and the **scriptcmd** file onto the Micro SD card.

Insert the prepared Micro SD card into the VAB-600, connect an HDMI display, and power on the device to initiate the update process.

```
VIA Debian 7.0 Image and BSP Installation
Version - Update_Package_EMMC_VAB-600_Linux_BSP_V1.2.0.210.1
Board MAC ID: (00:1F:F2:0A:E7:9E)
-----
Packages List:
W-Load - 0.11.00.00 (1G RAM Support)
U-Boot - 0.20.00.00 (Display Support v0.05)
Kernel - VAB-600_Linux_BSP_v0.07
FileSystem - VAB-600_Debian_Xorg_LXDE_v0.04.tar.tgz
Packages - v1.2.0

[Progress Bar] 0 %
creating partition table

Warnings! Please don't power off! Please wait...
```

Update process screen

When the update process is completed, remove the Micro SD card. The system will automatically shut down in 3 seconds.

Power on the VAB-600 board again, and wait for the login prompt to appear.

The default user name is *debian* and the password is *temppwd*.



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