



IMAGE INSTALLATION GUIDE

ARTiGO A600

Linux EVK v1.2.1



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Revision History

Version	Date	Remarks
1.00	6/23/2016	Initial release



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1. Introduction

This Image Installation Guide explains how to boot the Linux EVK system image on the ARTiGO A600 system in order to begin evaluating the platform.

The ARTiGO A600 system is based on the VIA VAB-600 Pico ITX board.

1.1. Package Contents

The **ARTiGO-A600_Linux_EVK_v1.2.1.zip** file is a precompiled Debian image for evaluating the ARTiGO-A600 system.

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 boot
- Supports HDMI display
- Supports HDMI audio output
- Supports 7-pin COM connector (RS-232) (1 Debug console + 1 COM port TX/RX only)
- Supports 8-pin DIO connector for 8-bit GPIO (4 GPI + 4 GPO)
- Supports four 3-pole Phoenix RS-485 ports
- Supports USB: keyboard, mouse, flash disk, hard disk, and UVC camera
- Supports 10/100Mbps 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 **ARTiGO-A600_Linux_EVK_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 ARTiGO A600, connect an HDMI display, and power on the device to initiate the update process.

```

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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.

Power on the ARTiGO A600 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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