



GoDroid

GoDroid Installation

v1.0



Copyright Statement

Copyright in this document is owned by GoWarrior Community. Any person is hereby authorized to view, copy, print and distribute this document subject to the following conditions:

- The document may be used for informational purposes only
- The document may be used for non-commercial purposes only
- Any copy of this document or portion thereof must include this copyright notice

This document is provided "as is" without any warranty of any kind, either express or implied, statutory or otherwise; without limiting the foregoing, the warranties of satisfactory quality, fitness for a particular purpose or non-infringement are expressly excluded and under no circumstances will GoWarrior Community be liable for direct or indirect loss or damage of any kind, including loss of profit, revenue, goodwill or anticipated savings.

This document is intended only to assist the reader in the use of the product. GoWarrior Community makes no representations or warranties with respect to the accuracy or completeness of the contents of this document, which is used at your own risk and should not be relied upon. The information could include technical inaccuracies or typographical errors. No license, whether express, implied, arising by estoppel or otherwise, to any intellectual property right is granted by this document.

The product described in this document is subject to continuous development and improvements. GoWarrior Community also reserves the right to make changes to the specifications and product description at any time without notice.

Third-party brands and names mentioned in this publication are for identification purpose only and may be the property of their respective owners.

Android™ is a registered trademark of Google Inc. Linux® is a registered trademark of Linus Torvalds. Microsoft® and Windows® are registered trademarks of Microsoft Corporation. Supply of this product does not convey a license nor imply a right under any patent, or any other industrial or intellectual property right of Google Inc., Linus Torvalds, and Microsoft Corporation to use this implementation in any finished end-user or ready-to-use final product. It is hereby notified that a license for such use is required from Google Inc., Linus Torvalds and Microsoft Corporation.

For the latest version of this document refer to:

www.gowarriorosh.com

Copyright © 2015 GoWarrior Community All Rights Reserved.

Table of Contents

| | |
|---------------------------------------|-----------|
| Preface | 1 |
| Overview | 1 |
| Audience | 1 |
| Applicable Products..... | 1 |
| Reference Documents..... | 1 |
| Conventions..... | 2 |
| How to Contact Us..... | 3 |
| 1 Installation Overview..... | 4 |
| 2 Installing GoDroid | 5 |
| 2.1 What You Will Need | 5 |
| 2.2 Installation Procedure | 5 |
| 2.3 Setting MAC Address | 6 |
| Appendix: Glossary | 9 |
| Revision History | 10 |
| Document Change History..... | 10 |
| Software Changes..... | 10 |

List of Tables

| | |
|---|----|
| Table 1. Typographical Conventions..... | 2 |
| Table 2. Symbol Conventions | 2 |
| Table 3. Hardware Preparation..... | 5 |
| Table 4. List of Abbreviations..... | 9 |
| Table 5. Document Change History | 10 |
| Table 6. Software Change History..... | 10 |

List of Figures

| | |
|--|---|
| Figure 1. Image File Structure..... | 6 |
| Figure 2. Changing MAC Address..... | 7 |
| Figure 3. Setting New MAC Address..... | 7 |
| Figure 4. Rebooting System..... | 8 |

Preface

Overview

This manual provides detailed guidance about how to install GoDroid system on TIGER Board. This manual is organized into the following chapters:

- **Chapter 1: Installation Overview**

This chapter provides overview about the GoDroid installation.

- **Chapter 2: Installing GoDroid**

This chapter provides the procedure of installing GoDroid.

Audience

This manual is applicable for the users who wish to learn how to install GoDroid on TIGER Board first time. Readers are assumed to have certain knowledge and background on Android embedded development.

Applicable Products

This manual is applicable for the GoWarrior TIGER Board.

Reference Documents

- Getting Started with GoDroid

Conventions

Typographical Conventions

| Item | Format |
|---|--|
| codes, keyboard input commands, file names, equations, and math | <code>Courier New, Size 10.5</code> |
| Variables, code variables, and code comments | <i>Courier New, Size, Italic</i> |
| Menu item, buttons, tool names | Ebrima, Size 10.5, Bold e.g. Select USB Debugging |
| Screens, windows, dialog boxes, and tabs | Ebrima, Size 10.5, Bold Enclosed in double quotation marks e.g. Open the “Debug Configuration” dialog box |

Table 1. Typographical Conventions

Symbol Conventions




| Item | Description |
|--|--|
|  <i>Caution</i> | Indicates a potential hazard or unsafe practice that, if not avoided, could result in data loss, device performance degradation, or other unpredictable results. |
|  <i>Note</i> | Indicates additional and supplemental information for the main contents. |
|  <i>Tip</i> | Indicates a suggestion that may help you solve a problem or save your time. |

Table 2. Symbol Conventions

How to Contact Us

Submit all your comments and error reports to the author at:

info@gowarriorosh.com

Tel: +886-2-8752-2000

Fax: +886-2-8751-1001

For questions regarding GoWarrior, contact our support team at the email listed below:

support@gowarriorosh.com

1 Installation Overview

TIGER Board comes out of the box with GoDroid pre-installed, you can start GoDroid directly just by powering up the board.

To update GoDroid to the latest version, or if you have customized GoDroid, you can install the system with the image file using a MicroSD card.

To obtain the image file, download them from the GoWarrior website:
www.gowarriorosh.com

2 Installing GoDroid

Installing GoDroid is not a difficult task; you can accomplish the installation in minutes.

2.1 What You Will Need

Before installation, prepare the power supply for the board, a PC and a MicroSD card by the following table.

| Hardware | Options | Description |
|---------------------------------|--|--|
| Power supply | 5V/2A power supply | Provides power supply through the 5V power Jack on the board. |
| | PC (with a Micro-USB cable) | Provides power supply by connecting to the board with a Micro-USB cable. |
| PC (with a MicroSD card reader) | N/A | Handles GoDroid image file. |
| Display device | TV/Monitor (with an HDMI or AV Jack cable) | Supports HDMI or CVBS as input video source for GoDroid initial configuration. |
| MicroSD card | N/A | FAT32 format and less than 64 GB. |

Table 3. Hardware Preparation

2.2 Installation Procedure

Before starting to install GoDroid, ensure that you have prepared the necessary devices described in section 2.1.

Procedure:

1. Download the image file from the GoWarrior website: www.gowarriorosh.com, and unzip it. The unzipped files are shown as below:

```
sdboot
├── bootcode.abs
└── burn
    ├── ALI.ini
    ├── backup.abs
    ├── baseparams.abs
    ├── bootargs.abs
    ├── bootmedia.ubo
    ├── cache.img
    ├── deviceinfo.abs
    ├── kernel.ubo
    ├── NandList_v2.ran
    ├── recovery.ubo
    ├── sdram_C3921_BGA462_1GB_1600MTps.abs
    ├── system.img
    ├── uboot_unify_1GB_training.abs
    └── userdata.img
```

Figure 1. Image File Structure

2. Copy the `bootcode.abs` file and `burn` folder to the root directory of your MicroSD card.
3. Switch the **Boot Switch** button to **MicroSD Boot**.
4. Connect your display device to the board, and power on the board with your power supply.
5. After the installation is complete, power off the board.
6. Switch the **Boot Switch** button to **NAND Boot**.

2.3 Setting MAC Address

GoDroid starts automatically when you power on the board after installation. For more information about the first start of GoDroid, refer to [Getting Started with GoDroid](#). After the initial setup of GoDroid, perform the following steps to set the MAC address for the board:

Procedure:

1. Select **Settings** > **Ethernet configuration** > **LAN MAC address**, and then click **OK**.

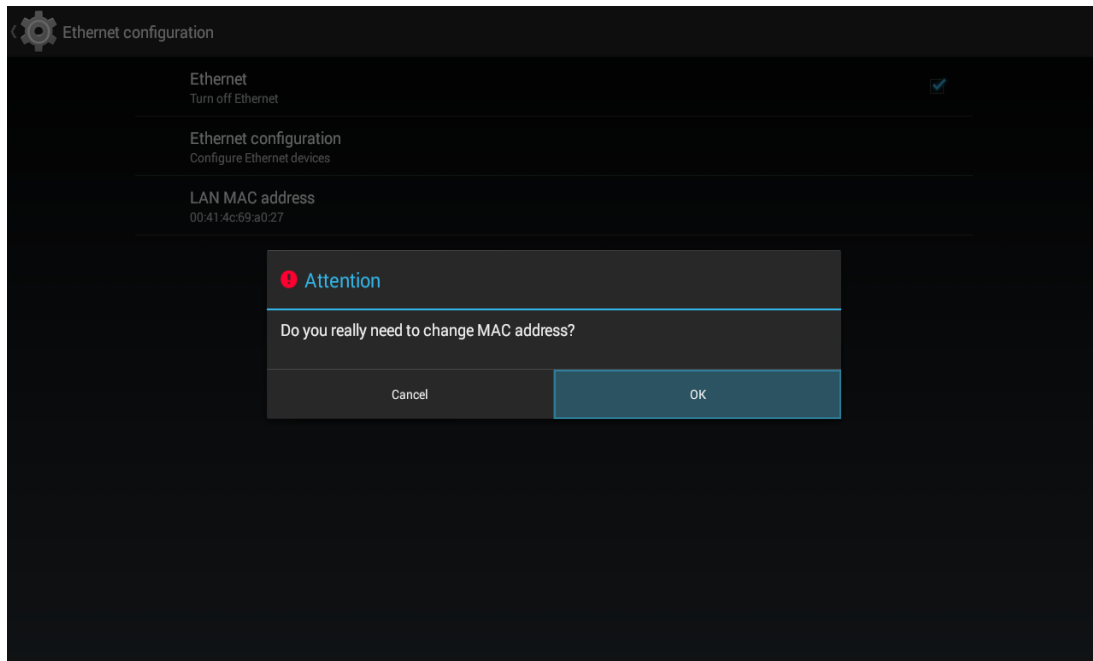


Figure 2. Changing MAC Address

2. Enter the new MAC address, and then click **Save**.
To get the MAC address, check the packing box of your TIGER Board.

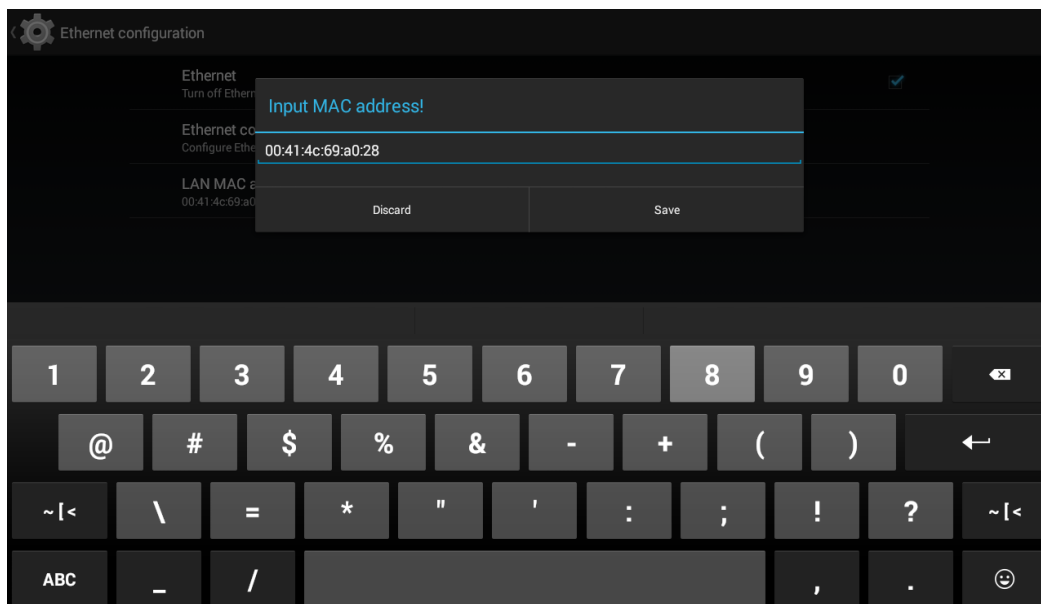


Figure 3. Setting New MAC Address

3. Click **OK**.

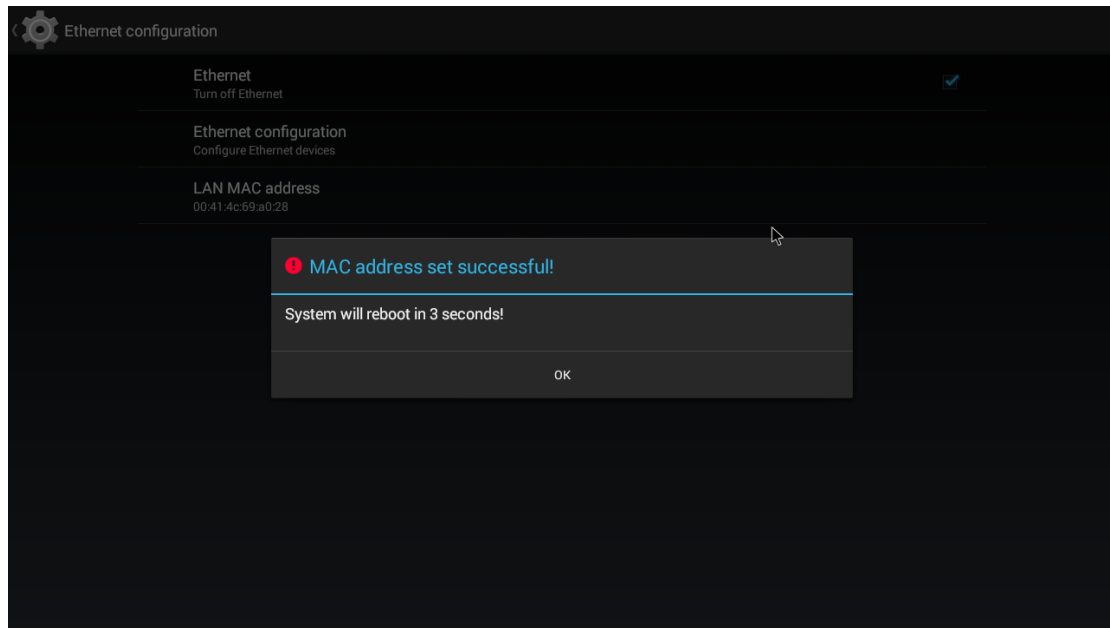


Figure 4. Rebooting System

Appendix: Glossary

| Abbr. | Full Name |
|---------|---|
| GoDroid | GoDroid is the integral Android-based operating system of GoWarrior platform. |

Table 4. List of Abbreviations

Revision History

Document Change History

| Revision | Changes | Date |
|----------|-----------------|-------------------|
| v1.0 | Initial Release | November 19, 2015 |

Table 5. Document Change History

Software Changes

| Revision | Changes | Date |
|----------|-----------------|--------------------|
| v1.0 | Initial Release | September 07, 2015 |

Table 6. Software Change History



www.gowarriorosh.com

Headquarters

Tel: +886-2-8752-2000

Fax: +886-2-8751-1001

