GOWARRIOR

# GoDroid

## Getting Started with GoDroid

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.**

# CONTENTS

**Preface** ..... 1

Overview ..... 1

Audience ..... 1

Applicable Products ..... 1

Reference Documents ..... 1

Conventions ..... 2

How to Contact Us ..... 3

**1 First Start** ..... 4

1.1 What You Will Need ..... 4

1.2 Starting Procedure ..... 4

1.3 Initial Setup ..... 6

**2 GoDroid Desktop Experience** ..... 10

2.1 Application Installation and Uninstallation ..... 10

2.1.1 Installing an Application ..... 10

2.1.2 Uninstalling an Application ..... 13

2.2 Support for Kodi ..... 17

2.3 TV Settings ..... 18

**Appendix: Glossary** ..... 20

**Revision History** ..... 21

Document Change History ..... 21

Software Changes ..... 21

# List of Tables

Table 1. Typographical Conventions ..... 2
Table 2. Symbol Conventions ..... 2
Table 3. Hardware Preparation ..... 4
Table 4. List of Glossary ..... 20
Table 5. Document Change History ..... 21
Table 6. Software Change History ..... 21

# List of Figures

Figure 1. TIGER Board Top Side and Interface ..... 5
Figure 2. GoDroid Logo ..... 6
Figure 3. GoDroid Welcome Page ..... 6
Figure 4. Resolution Setting ..... 7
Figure 5. Screen Setting ..... 7
Figure 6. Network Setting ..... 8
Figure 7. Time Zone Setting ..... 9
Figure 8. GoDroid Home Screen ..... 9
Figure 9. GoDroid APPS ..... 11
Figure 10. My Data Folder ..... 11
Figure 11. Installation Packages ..... 12
Figure 12. Selecting Package ..... 12
Figure 13. Selecting and Holding an Application ..... 13
Figure 14. Dragging to Uninstall ..... 14
Figure 15. Confirming to Uninstall ..... 14
Figure 16. Selecting Kodi ..... 15
Figure 17. Selecting an App to Uninstall ..... 15
Figure 18. Selecting Uninstall ..... 16
Figure 19. Clicking OK to Uninstall ..... 16
Figure 20. Selecting Kodi in Tango ..... 17
Figure 21. Clicking Install ..... 18
Figure 22. Kodi Installed ..... 18

# Preface

## Overview

GoDroid is an Android-based operating system provided by GoWarrior. This document describes GoDroid by the following chapters:

1. Chapter 1: First Start

This chapter describes how to start and initialize GoDroid.

2. Chapter 2: GoDroid Desktop Experience

This chapter introduces the exclusive desktop experience with GoDroid.

## Audience

This manual is applicable for the users who wish to learn how to run 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

GoWarrior_GoDroid_Application Notes_Kodi Installation and Use

# Conventions

## Typographical Conventions

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

**Table 1. Typographical Conventions**

## Symbol Conventions

| Item | Description |
|---|---|
| *Caution* | Indicates a potential hazard or unsafe practice that, if not avoided, could result in data loss, device performance degradation, or other unpredictable results. |
| *Note* | Indicates additional and supplemental information for the main contents. |
| *Tip* | 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 First Start

GoDroid is preinstalled on TIGER Board. You can start GoDroid by powering up the board directly.

## 1.1 What You Will Need

Before booting up, prepare the power supply, display, and input devices for the board 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. |
| Display device | TV/Monitor (with an HDMI or AV Jack cable) | Supports HDMI or CVBS as input video source for GoDroid initial configuration. |
| Input devices | USB mouse + keyboard | Serve as input device for GoDroid initial configuration. |

**Table 3. Hardware Preparation**

## 1.2 Starting Procedure

Before starting GoDroid, ensure that you have prepared the necessary devices.

**Procedure**:

1. Connect your display device through the HDMI or AV Jack port, and connect your mouse and keyboard through the USB ports on the board.

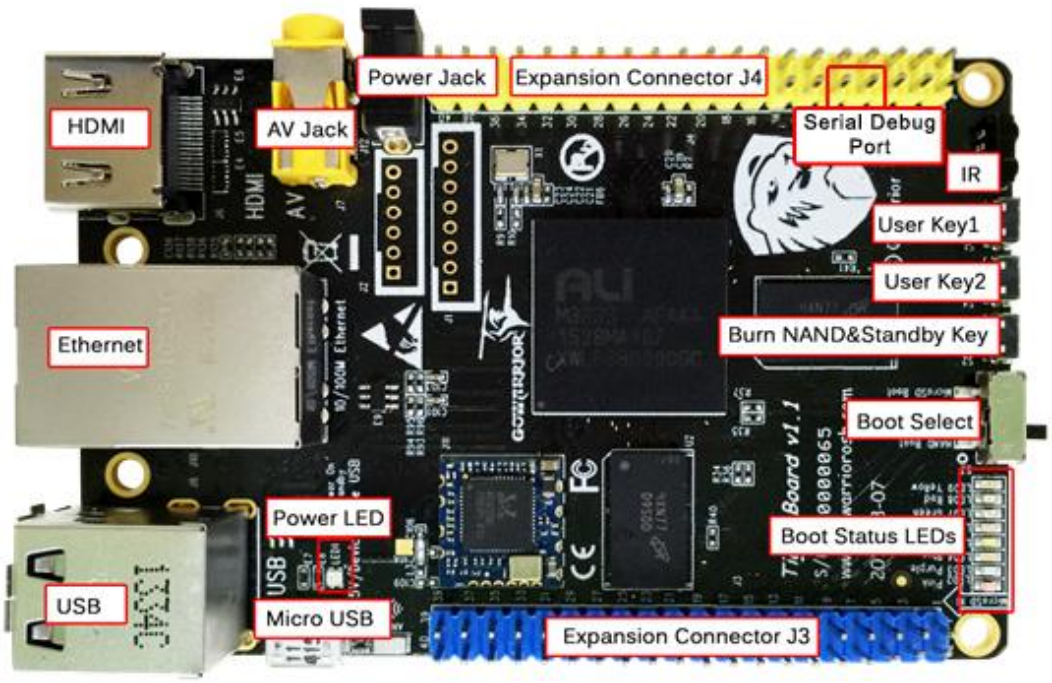



**Figure 1. TIGER Board Top Side and Interface**

2. Switch the Boot Select button to NAND Boot.
3. Power up the board through the Micro-USB port or 5V power Jack on the board using your power supply.

   Notice that GoDroid system starts automatically, and the GoDroid logo displays after the startup is successful.

   GoDroid's first start takes about one minute for initialing the system. If there is no output on your display devices connecting the board with HDMI cable, switch the monitor to CVBS mode.

**Figure 2. GoDroid Logo**

## 1.3 Initial Setup

After GoDroid starts up for the first time, a wizard program launches automatically and guides you through setting up screen resolution, screen size, network and time zone for GoDroid.

**Procedure:**

1. Click **Basic Setup** on the **Welcome** screen.

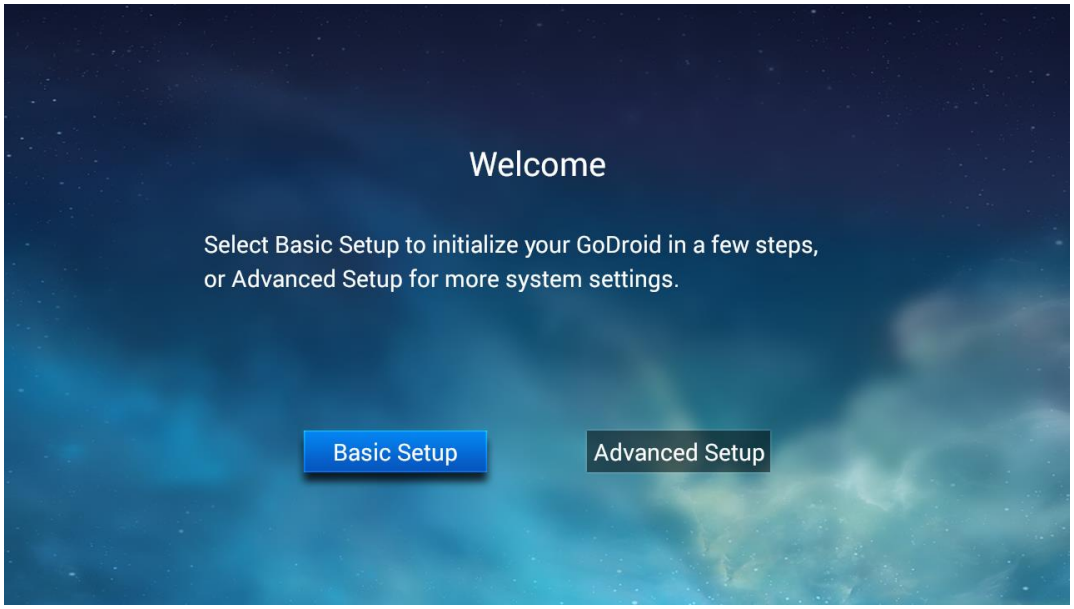



**Figure 3. GoDroid Welcome Page**

2. Select a screen resolution in the drop down list, and then click **Next**.

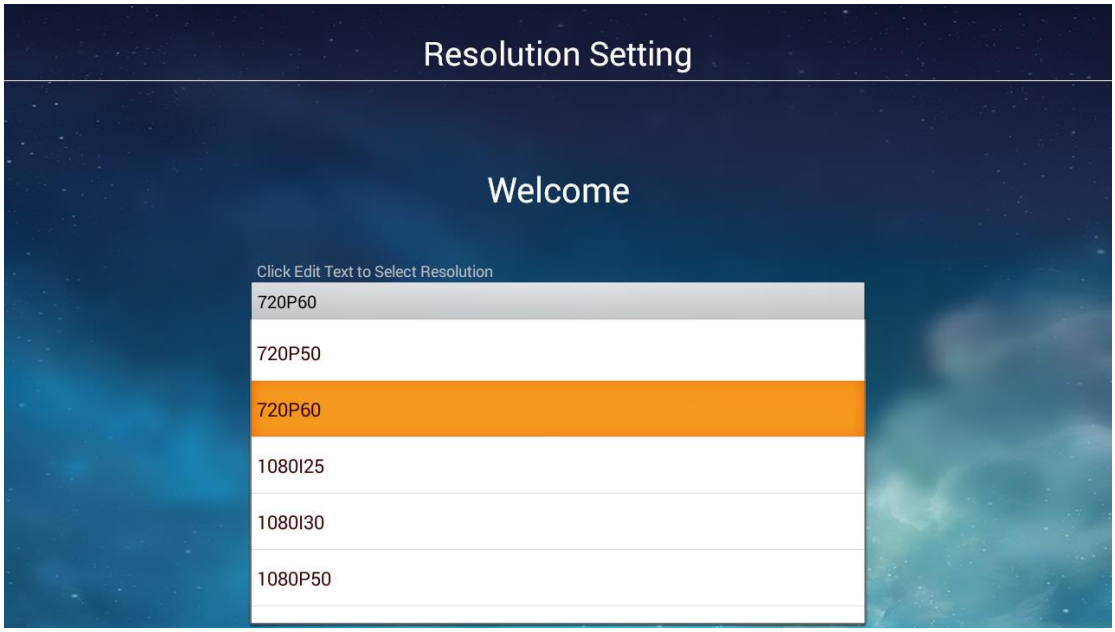



**Figure 4. Resolution Setting**

3. Adjust the screen size by the [UP] and [Down] keys on your keyboard, and then click **Next**.

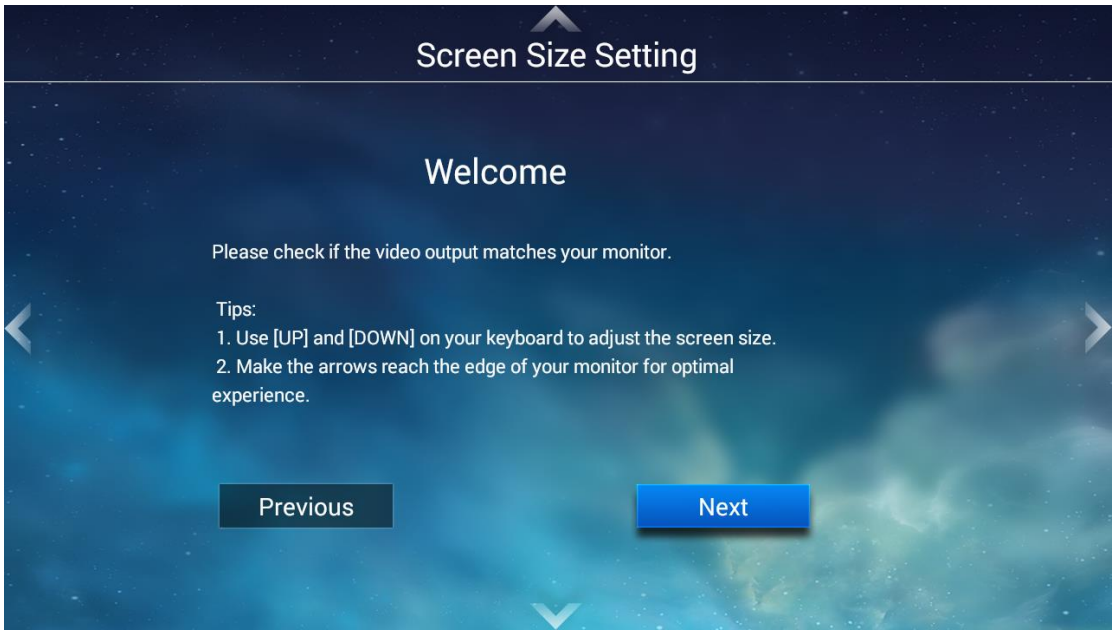



**Figure 5. Screen Setting**

4. Click **Set up Wi-Fi** or **Set up Ethernet** to connect the board to the Internet.

**Figure 6. Network Setting**

To set up a Wi-Fi connection, select a wireless network from the list and enter password.

To set up an Ethernet connection, plug an Ethernet cable into the RJ45 connector on the board first, and then select one of the following options to set IP address.

**Auto** — IP address will be assigned automatically.

**Manual** — Set IP address and other network information manually.

5. Select a time zone in the drop down list, and then click **Finish** to enter GoDroid.

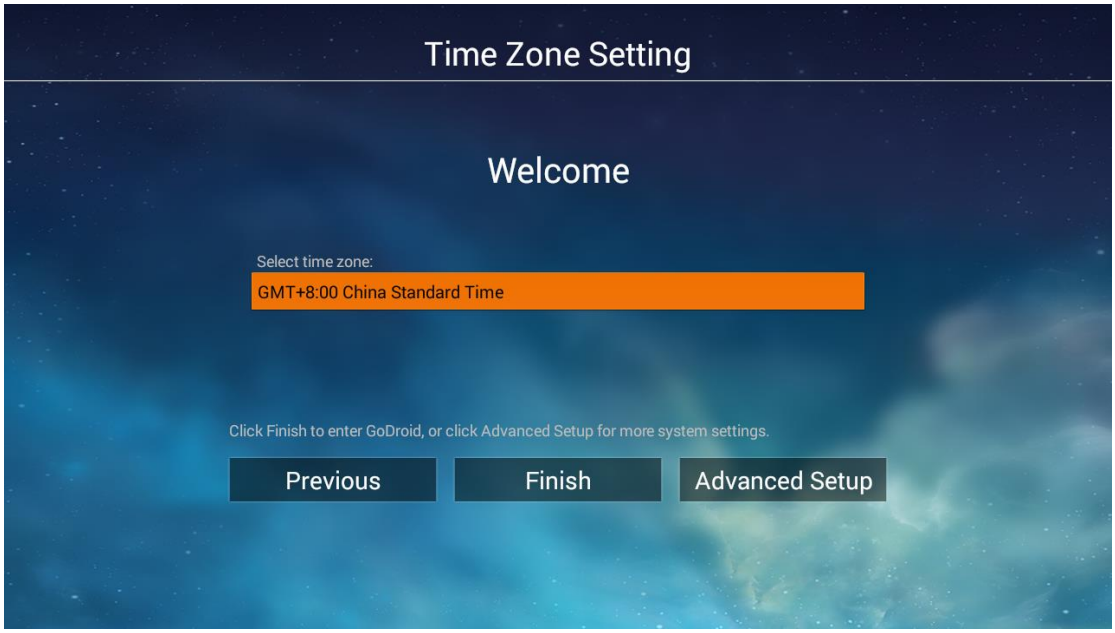



**Figure 7. Time Zone Setting**

6. After the setup is complete, the home screen is displayed. Click the button on the bottom of the screen to see the APPs.

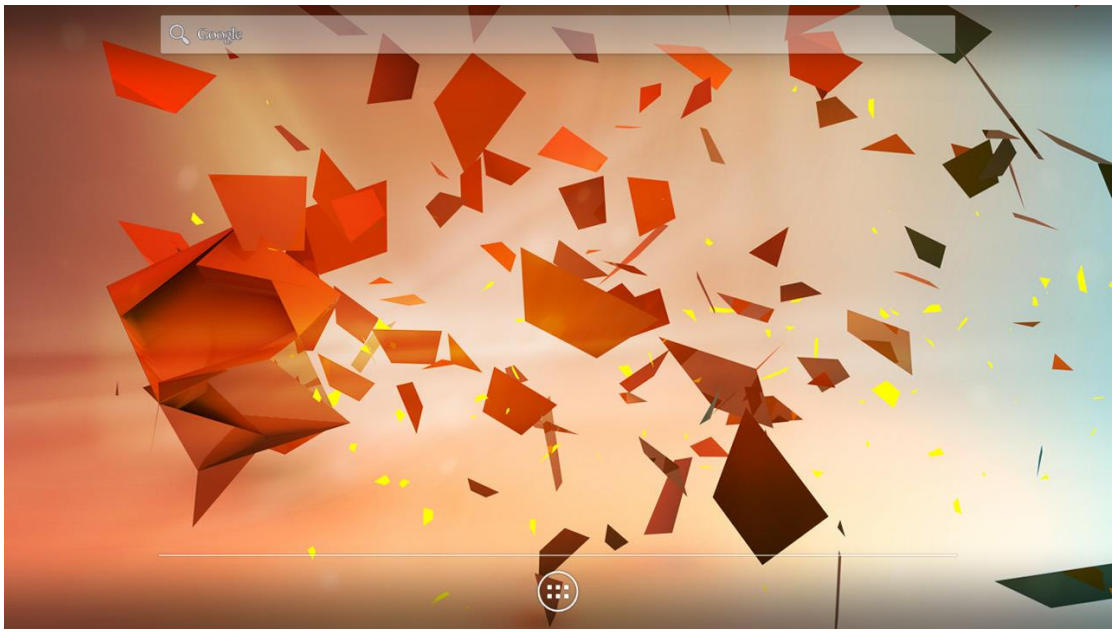



**Figure 8. GoDroid Home Screen**

# 2 GoDroid Desktop Experience

GoDroid brings you extra desktop experience beyond Android.

## 2.1 Application Installation and Uninstallation

In GoDroid, you can install an application with Tango Brower, and uninstall it using a mouse or a remote control.

### 2.1.1 Installing an Application

Generally, you can use Tango Browser to install application. Tango Browser is a pre-installed application in GoDroid with the installation packages of commonly used applications inside.

***Note:***

*GoDroid is based on Android 4.4.4, and most APPs that are compatible with Android 4.4.4 can be operated normally on GoDroid, but the applications dedicated for mobile phones may have UI adaptation problems.*

To install with Tango Browser, perform the following steps:

**Procedure:**

1. Select Tango Browser in APPS.

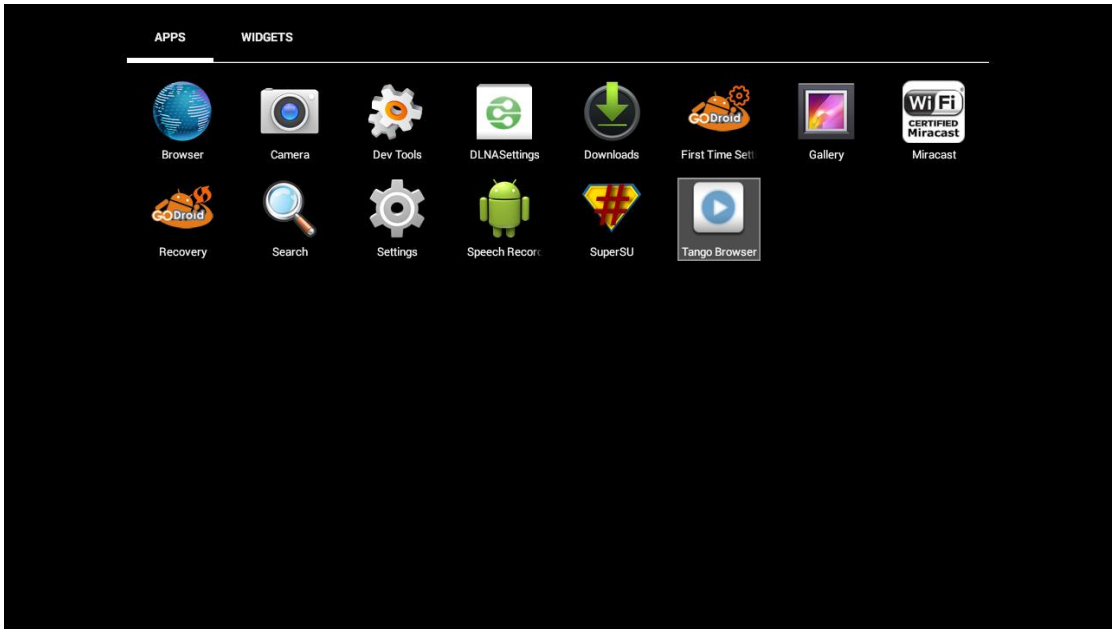



**Figure 9. GoDroid APPS**

2. Select **APP** > **My Data**.

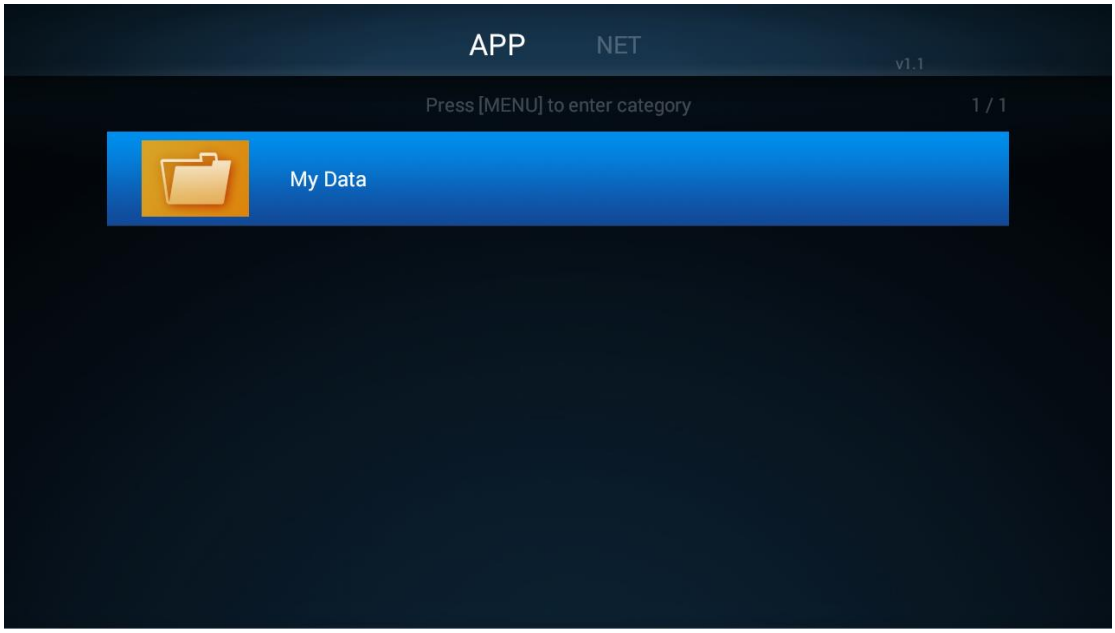



**Figure 10. My Data Folder**

3. Select an installation package to install.

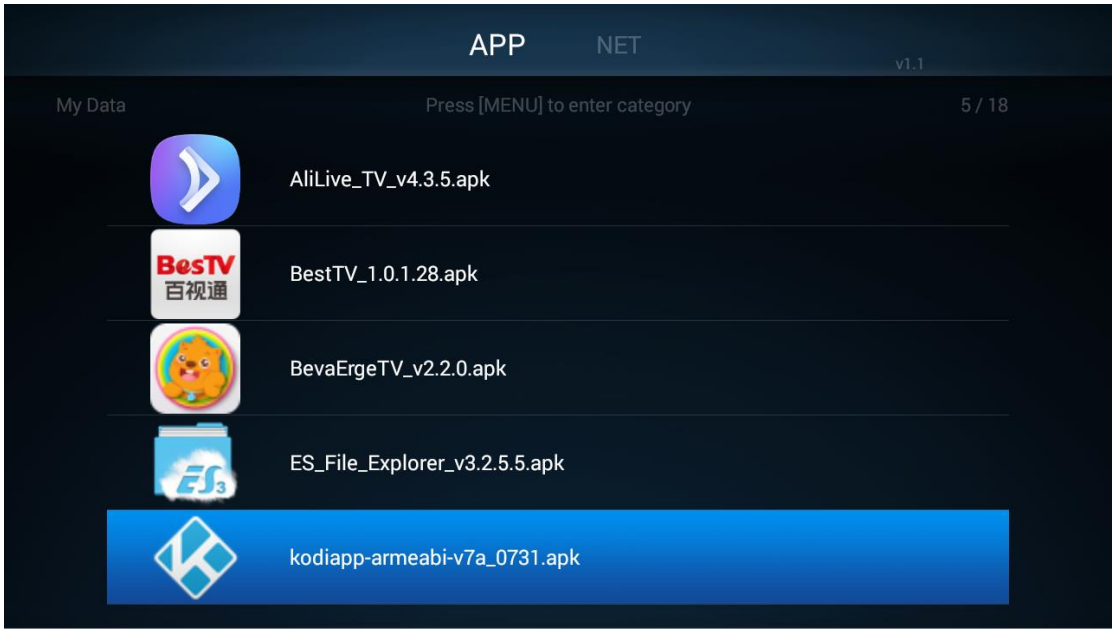



**Figure 11. Installation Packages**

To install other applications, copy the installation package to a USB disk, and then plug the disk to TIGER Board. Go to **Tango Browser** > **APP** > **My U disk-1**, and select your application to install.

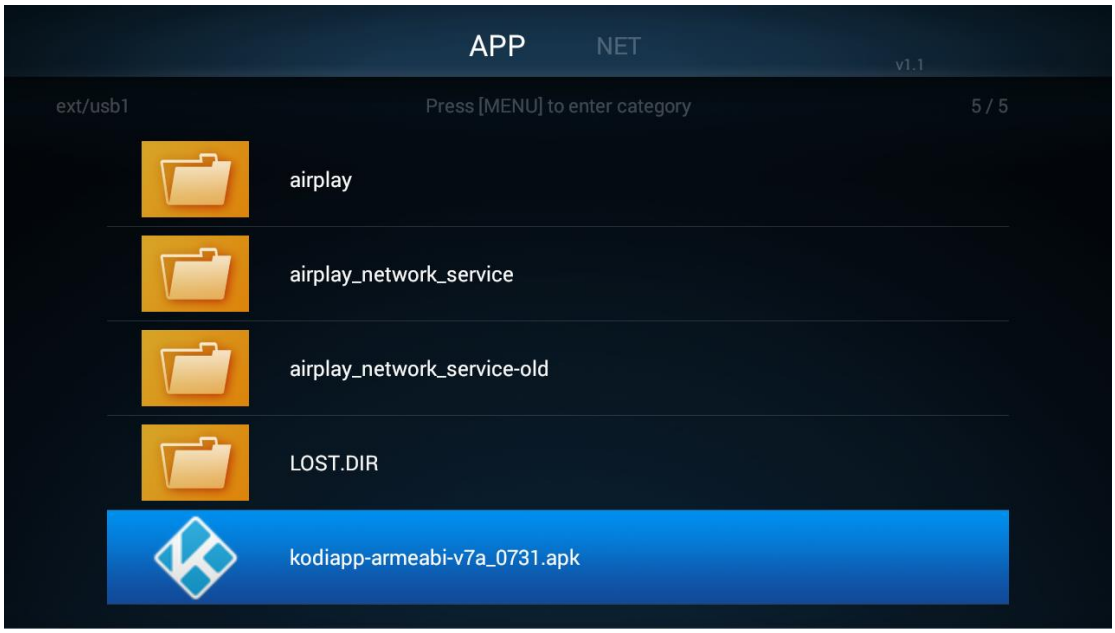



**Figure 12. Selecting Package**

## 2.1.2 Uninstalling an Application

GoDroid allows you uninstall an application using mouse or remote control.

To uninstall with a mouse, perform the following steps:

**Procedure:**

1. Select and hold the application in **APPS**, and the system will show a **Uninstall** icon at the top.

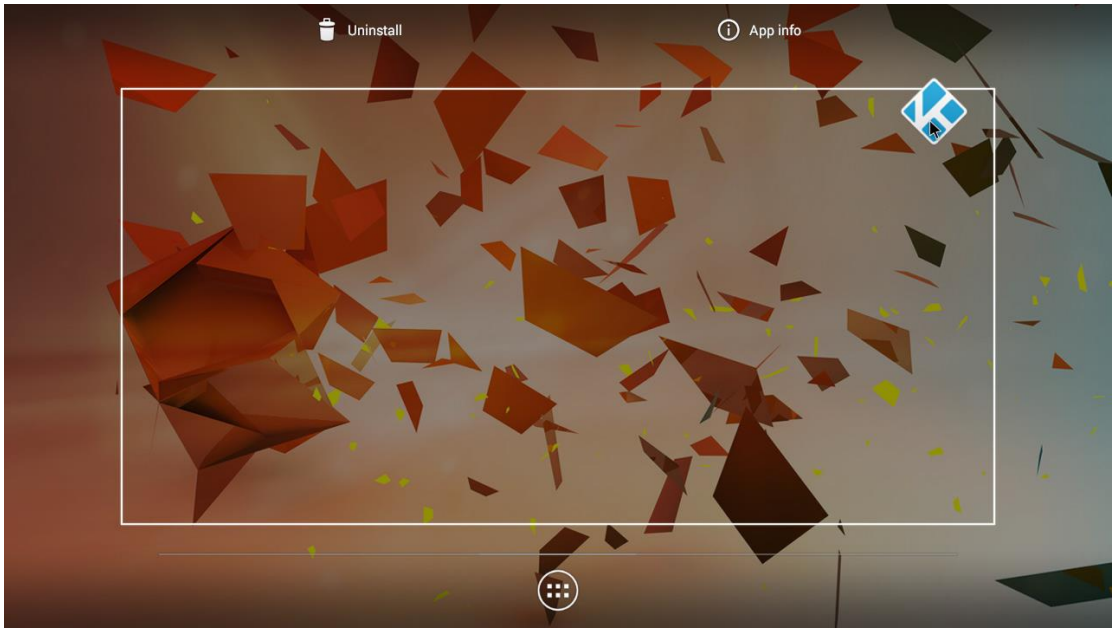



**Figure 13. Selecting and Holding an Application**

2. Drag the application to Uninstall.

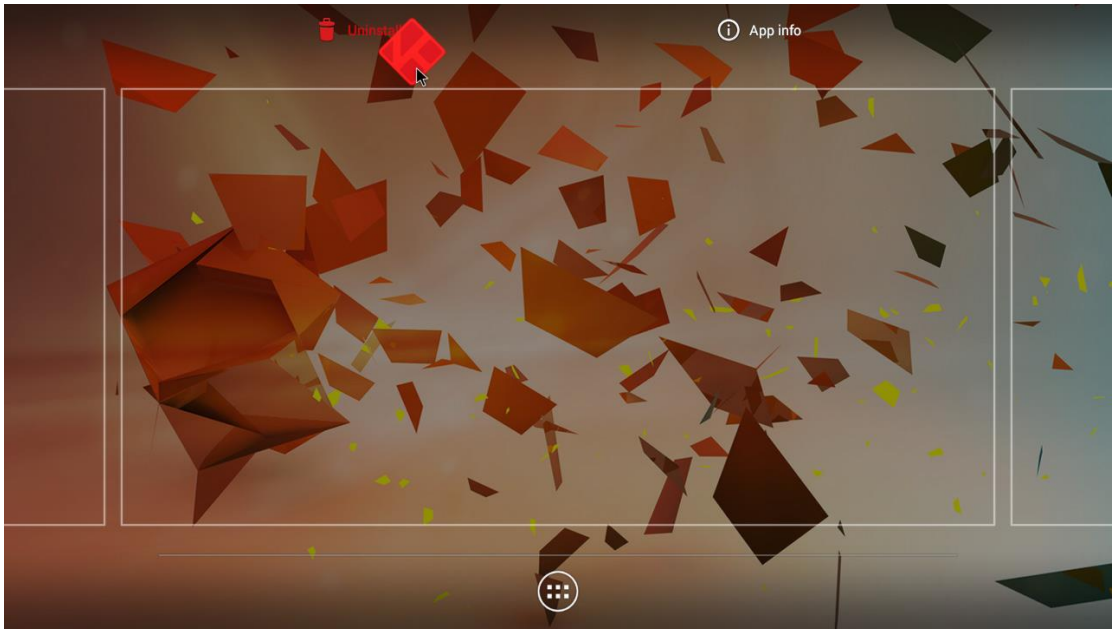



**Figure 14. Dragging to Uninstall**

3. Click **OK**.

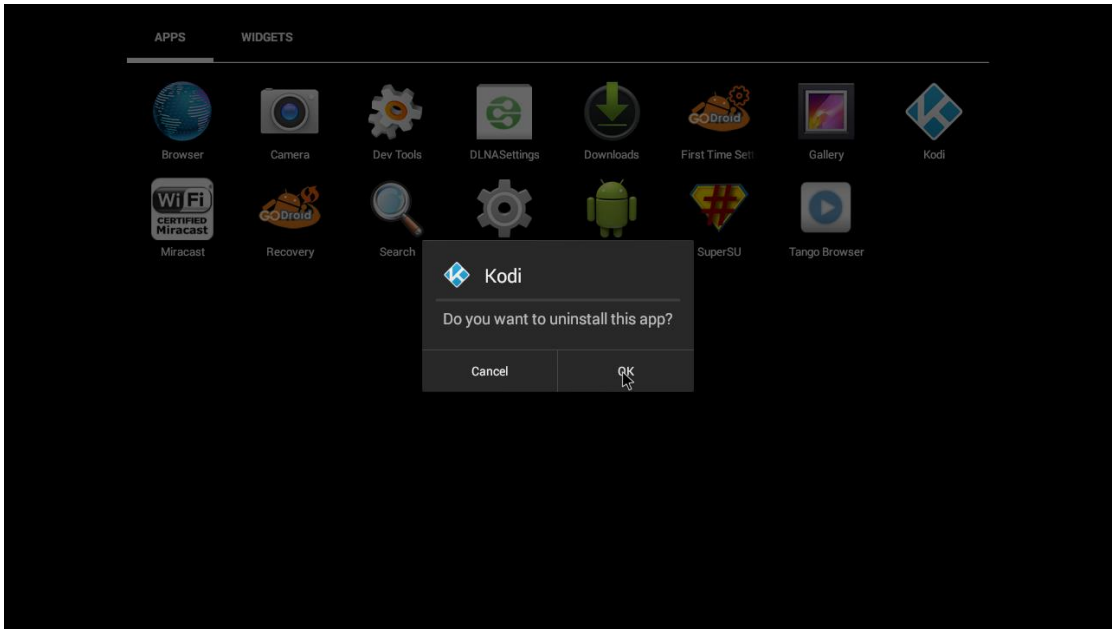



**Figure 15. Confirming to Uninstall**

To uninstall an application with a remote control, perform the following steps:

**Procedure:**

1. In **APPS**, click **Menu** button on your remote control, and select **Manage apps**.

**Figure 16. Selecting Kodi**

2. Select an App to uninstall.

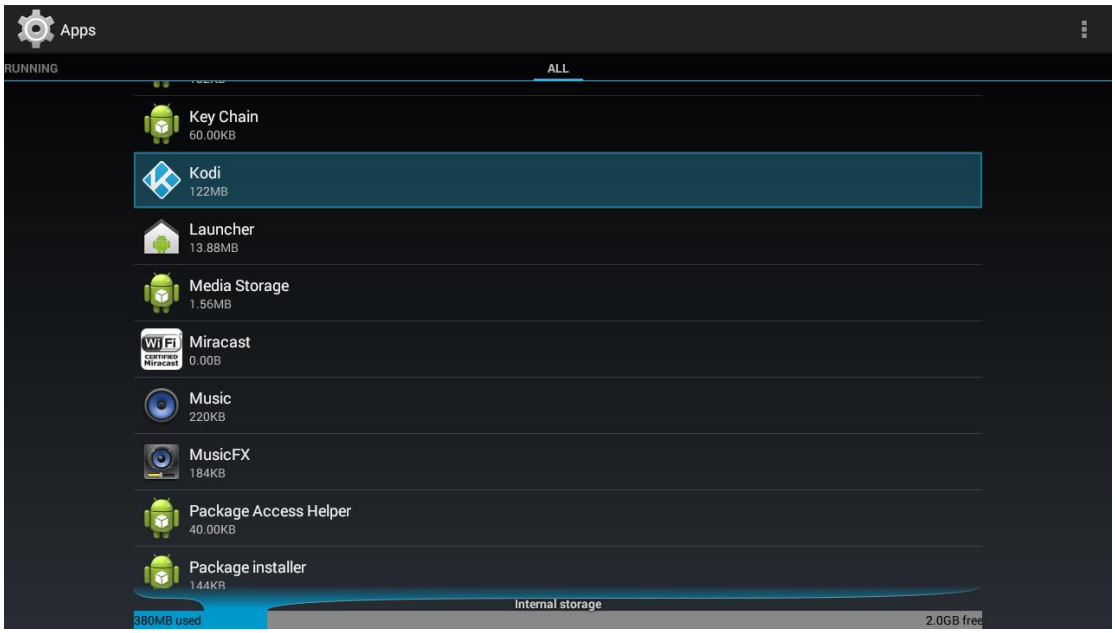



**Figure 17. Selecting an App to Uninstall**

3. Select Uninstall.

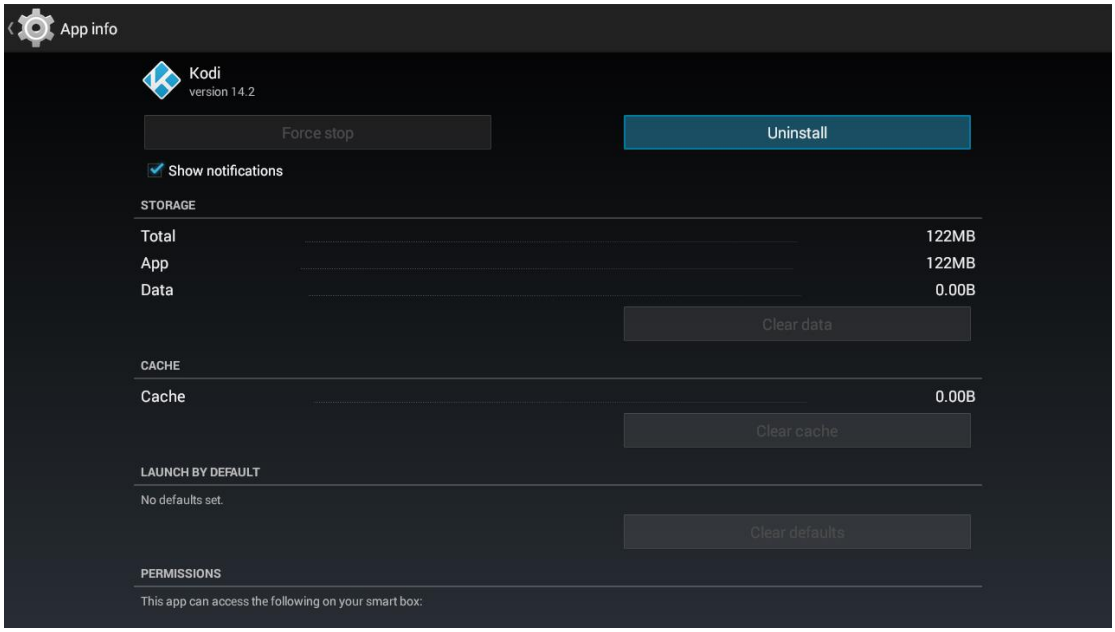



**Figure 18. Selecting Uninstall**

4. Click OK.

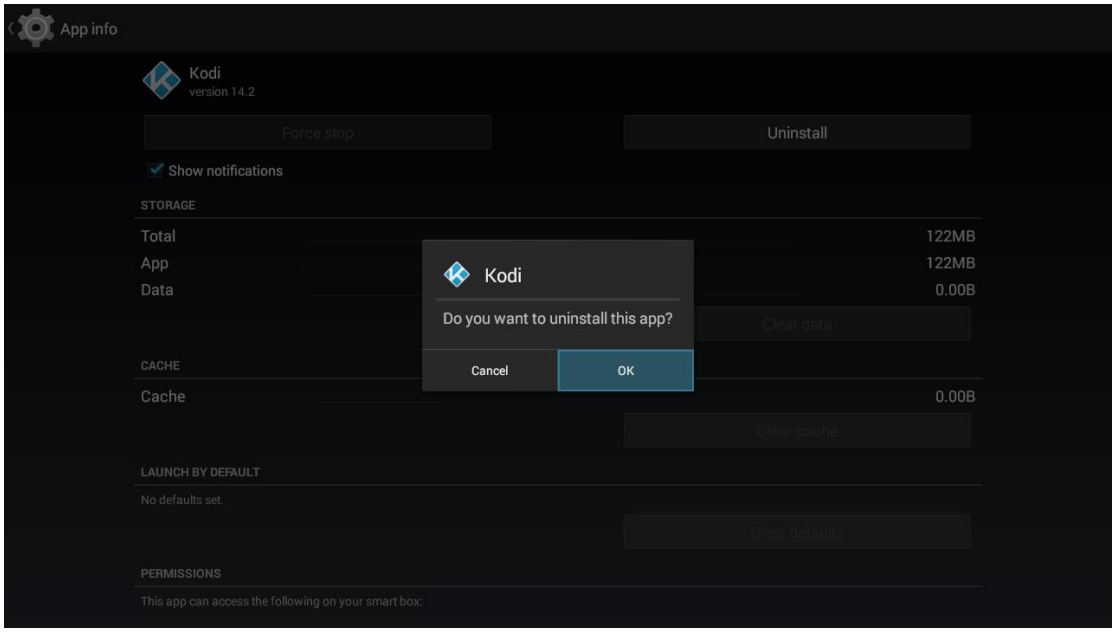



**Figure 19. Clicking OK to Uninstall**

## 2.2 Support for Kodi

GoDroid supports to use Kodi for playing local multimedia files. To use Kodi, install it from **Tango Browser** > **APP** > **My Data** in GoDroid**.** For more information about how to use Kodi in GoDroid, refer to "*GoWarrior_GoDroid_Application Notes_Kodi Installation and Use*".

**Procedure**:

1. Select Kodi from **Tango Browser > APP > My Data**.

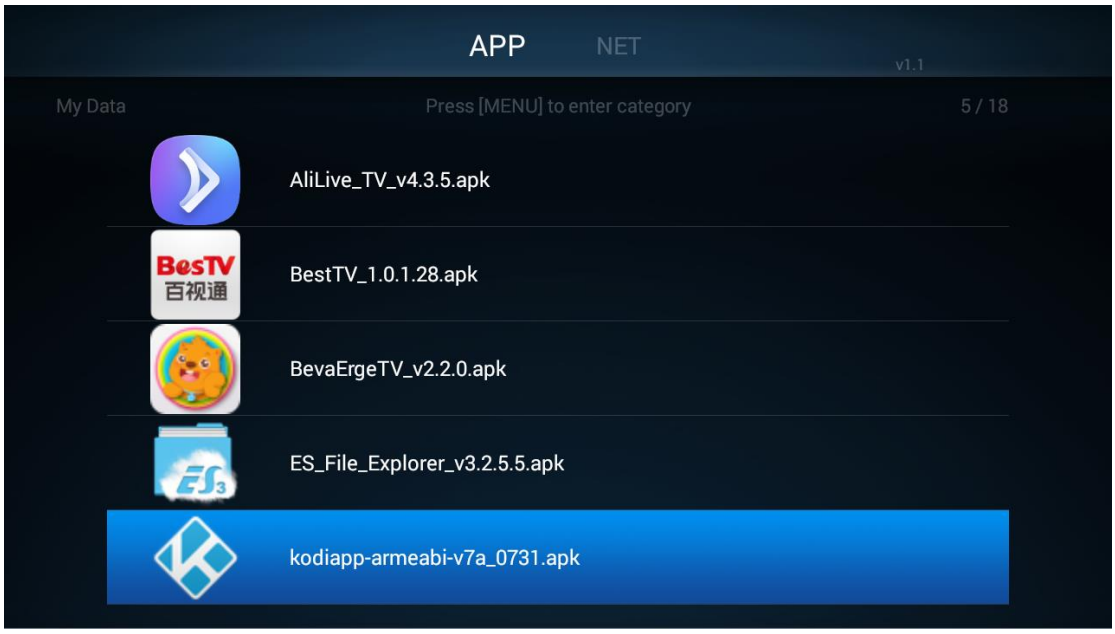



**Figure 20. Selecting Kodi in Tango**

2. Click **Install**.

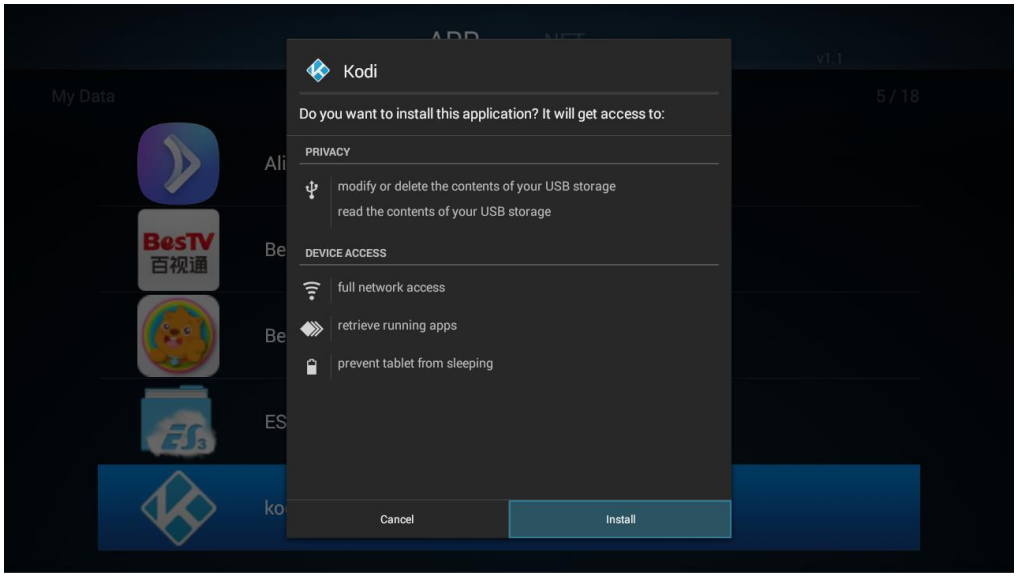



**Figure 21. Clicking Install**

3. Wait for a few seconds while installing, and then click **Open**.

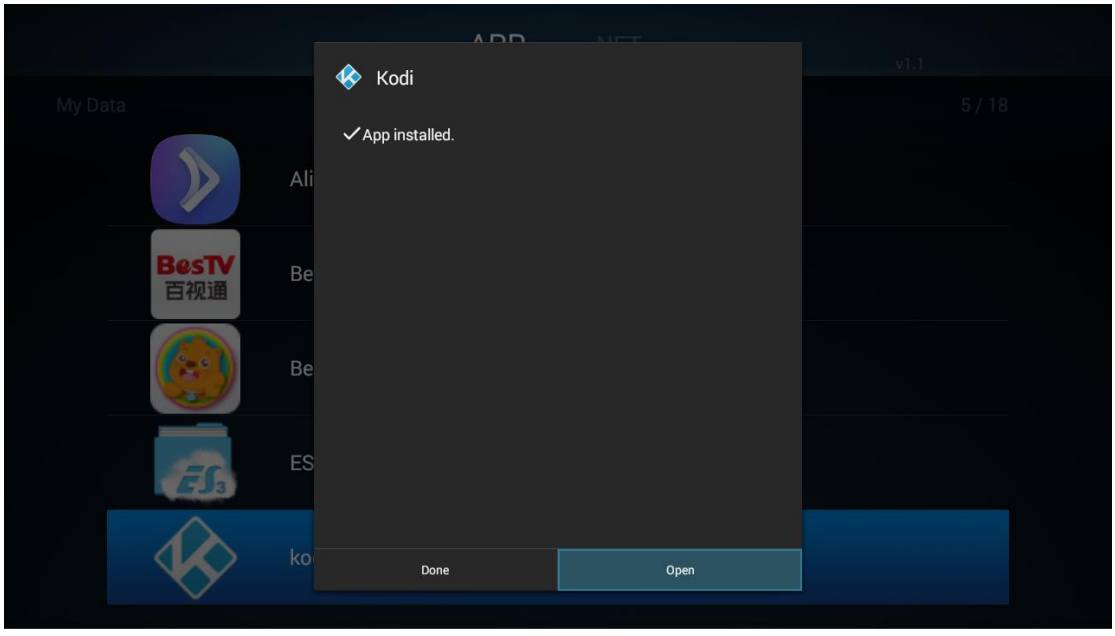



**Figure 22. Kodi Installed**

## 2.3 TV Settings

GoDroid allows you to set the following TV parameters in **Settings** > **TV Settings**:

- Brightness
- Contrast
- Saturation
- Scale Ratio
- Resolution
- Audio Output

# Appendix: Glossary

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

**Table 4. List of Glossary**

# Revision History

## Document Change History

| Revision | Changes | Date |
|---|---|---|
| v1.01 | Removed the image burning content.<br>Reorganized the document structure. | Oct. 29, 2015 |
| v1.0 | Initial Release | Sept. 07, 2015 |

**Table 5. Document Change History**

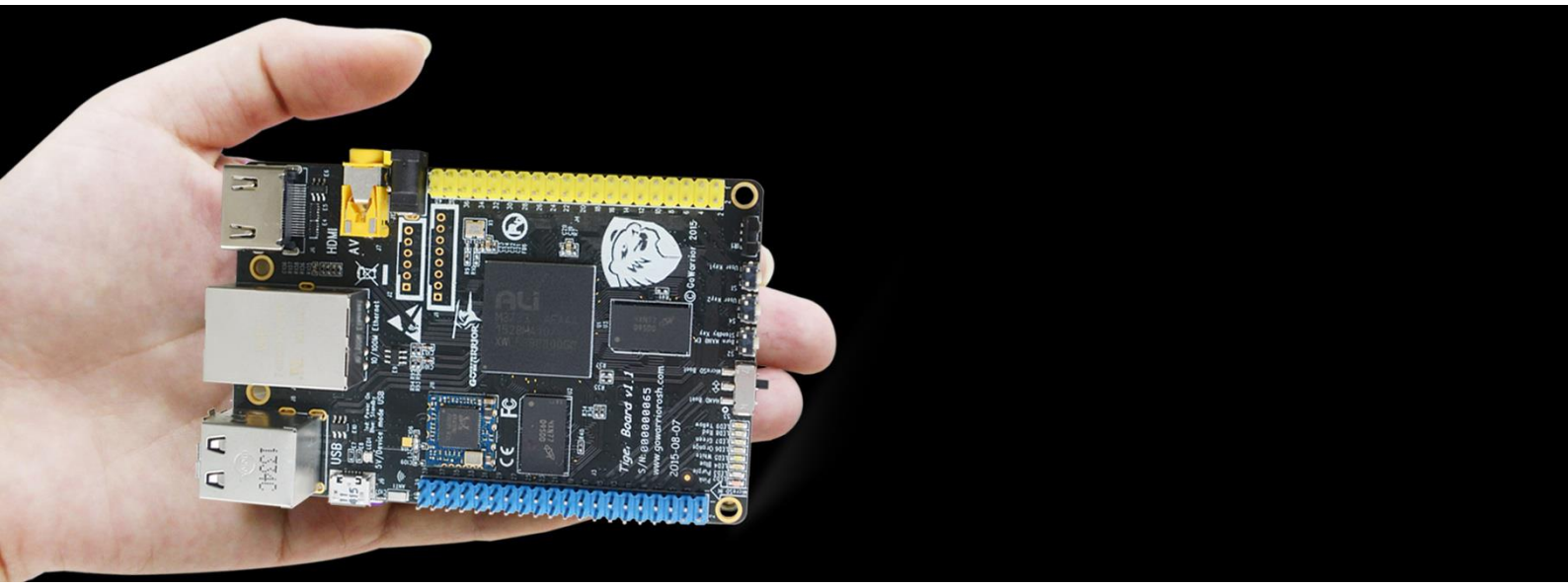
## Software Changes

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

**Table 6. Software Change History**

www.gowarriorosh.com

**Headquarters**

Tel: +886-2-8752-2000

Fax: +886-2-8751-1001