

ubiik	Weightless Starter Kit Ubiik Released Firmware Installation Manual	Version ..... 1.0.9 Author ..... Date..... 5/9/2018
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**Weightless**  
**Ubiik Released Firmware Update**  
**Installation Manual**  
**1.0.9**

Contents	
<b>Introduction</b>	<b>3</b>
<b>Install Latest Tools</b>	<b>3</b>
<b>Installing Base Station Software</b>	<b>3</b>
<b>Installing End Device Firmware</b>	<b>4</b>

# Introduction

Ubiik is continually enhancing its product offering and will be providing partners with free upgrades of the newest Weightless firmware versions for both Base Station(s) and End Device Module(s). Upon notification by your Ubiik representative, please download the new firmware provided and follow the instructions in this manual. It is strongly suggested to immediately install the new firmware to ensure stability and optimal performance of Ubiik hardware and software.

## Install Latest Tools

The latest version of the software tools **MUST** be downloaded to successfully execute the firmware upgrade.

Download the latest 1.0.9 version from the link previously provided.

Config Tool:

EVB GUI (Lily GUI) :

## Installing Base Station Software

- 1) Safely power off your Base Station
- 2) Remove the Base Station's SD card by gently pressing on the SD card releasing the lock. Once the lock is released, the SD card should pop out allowing you to carefully pull the SD card out.
- 3) Download the newest software release according to your Base Station Version. If you are not sure your Base Station version, please ask your Ubiik representative.

Base Station Ver.	Code	Frequencies	Download Link
Standard	V10	868/915MHz	Contact Ubiik Representative
PA Version	V11	868/915MHz	Contact Ubiik Representative
Custom 21	V21	Special	Contact Ubiik Representative
Custom 51	V51	Special	Contact Ubiik Representative

- 4) Insert SD card into PC's SD card slot or if your computer does not have a built-in SD card slot use a USB SD card slot. **A pop up should inquire whether you**

would like to format the SD card. Please click “CANCEL”. **Do NOT select “format SD card”.**

- 5) Make sure the file system image on SD card is backed up with tools like “Win32 Disk Imager”, so that the SD card content can be recovered if the software update fails for any reason.
- 6) In Base Station Software package, open up the folder titled BOOT and you will find the following four files
  - a) BOOT.BIN
  - b) Image.ub
  - c) bsconfig
  - d) hwconfig
- 7) Drag (or copy) the files onto your SD Card - no need to delete any files on the SD card as the dragging (or copying) should automatically replace the old files (select Replace Existing Files if prompted)
- 8) Once updated, safely eject the SD card (on Windows, right-click on the drive and select Eject) and place in back into the Base Station SD card slot
- 9) Power back on the Base Station
- 10) The three LEDs should light up. If not all LEDs are lit, go back to step 1.
- 11) It would take up to 2 minutes for the Base Station to be back online
- 12) You **do not need** to connect and re-register in the cloud.
- 13) Upgrading to 1.0.7.0 (V11,V21) would reset to factory setting frequency - 868.1MHz. You can change the Base Station frequency (from offline tool or web).

## Installing End Device Firmware

- 1) Download new firmware according to your End Device EVB part number:

EVB Ver.	Download Link
V20	Contact Ubiik Representative
V21	Contact Ubiik Representative
V22	Contact Ubiik Representative
V23	Contact Ubiik Representative

*\*EVB Part number is written on bottom right corner of EVB “20” or “21”*



- 2) Run the new LilyGUI
- 3) Connect your End Device then click **Firmware** and select the newest ED firmware release (the file with extension .ubf)
- 4) You will see a packet counting in the upper console window, then a pop-up with the amount of byte sent, or negative number if an error occurred.
- 5) Please try with one End Device at a time and make sure the update is successful before updating second End Device.
- 6) You can check ED version with AT+VERSION.
- 7) Upgrading to 1.0.7.0 would reset to factory setting frequency - 868.1MHz. You can change the ED to your desired frequency (i.e set AT+WARFCN=9150)