

# Marvelmind Dashboard

## Linux version

Version 2019.02.14

### Product overview

This is the Linux version of Dashboard, which was originally written for Windows environment and then re-written and ported to Linux.

Tested on:

1. Operating system: Ubuntu 16.04;  
CPU: Intel Core i5 3.1 GHz
2. Operating system: Raspbian (2018-11-13-raspbian-stretch-full);  
Platform: Raspberry Pi 3 Model B+

### Installation

- Download latest Marvelmind software package. Copy Dashboard and Dashboard API to directory that you will use for the program. Note the Linux version is provided for two hardware platforms: **x86** (most of laptops based on Intel or AMD CPU) and **arm** (for example, single-board computers like Raspberry Pi)
- Copy library **libdashapi.so** to the directory **/usr/local/lib** by executing command **sudo cp libdashapi.so /usr/local/lib** in terminal opened in directory with **libdashapi.so**. After that, execute **sudo ldconfig** in terminal.
- May be you will need to give rights for your user to access serial port by adding him to **dialout** group:
  - Execute in terminal: **sudo adduser \$USER dialout**
  - Add to the directory **/etc/udev/rules.d** file "**99-tty.rules**" with following content:  
#Marvelmind serial port rules  
KERNEL=="ttyACM0",GROUP="dialout",MODE="666"
- Before running Dashboard you may need to setup permissions: **sudo chmod 0777 ./dashboard\_x86** or **sudo chmod 0777 ./dashboard\_arm**, depending of your hardware;
- Now you shall be able to use the Dashboard

### Known limitations

- High CPU load. This may cause reduced tracking update rate and slower response on user actions like pushing buttons. To avoid CPU overload, don't use 'Dots timeout' setting more than 50;
- Some of captions on user interface items (buttons, windows titles etc) may be partially invisible because of too large size;
- Connecting to modem or beacon via USB may take up to 30 seconds because of delayed appearing of the serial port in the system;
- In checked state devices buttons may have checkbox filled with orange. It is not warning. Color of the checkboxes and some other GUI items depend of color scheme of your operating system.

Linux version of Dashboard was not so well tested as Windows version and may include more limitations than described. If you find more limitations or issues, please send us message to [info@marvelmind.com](mailto:info@marvelmind.com)