**Neptune 2 series**

**Marlin configuration modification reference**

Currently, the Neptune2&2D have two types of main boards, including the ZNP Robin Nano V1.2 and ZNP Robin Nano V1.3. The Neptune2S uses ZNP Robin Nano V1.3 main board.

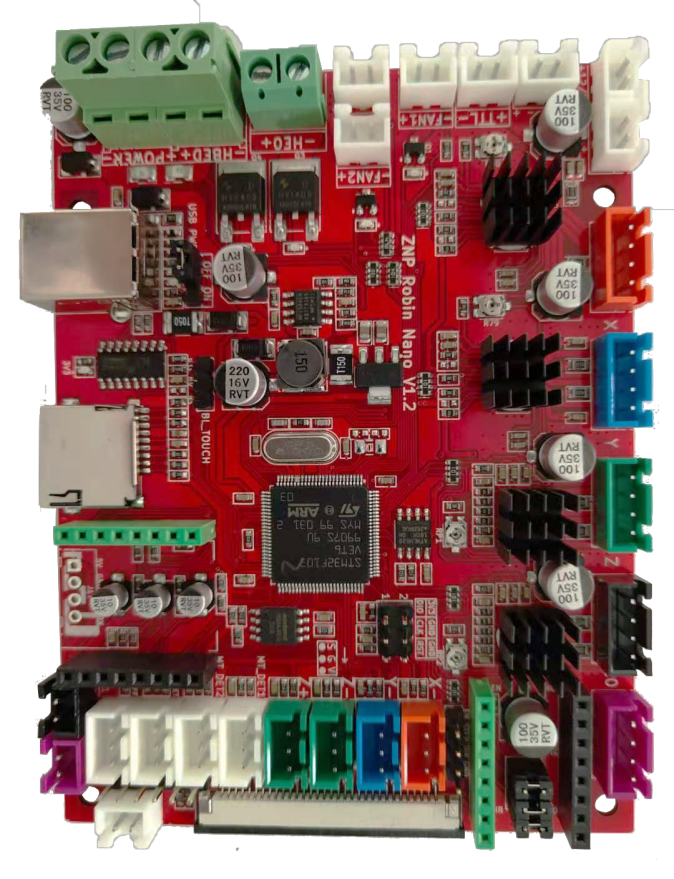
PS:Do not load wrong firmware onto the motherboard, it may damage the motherboard.

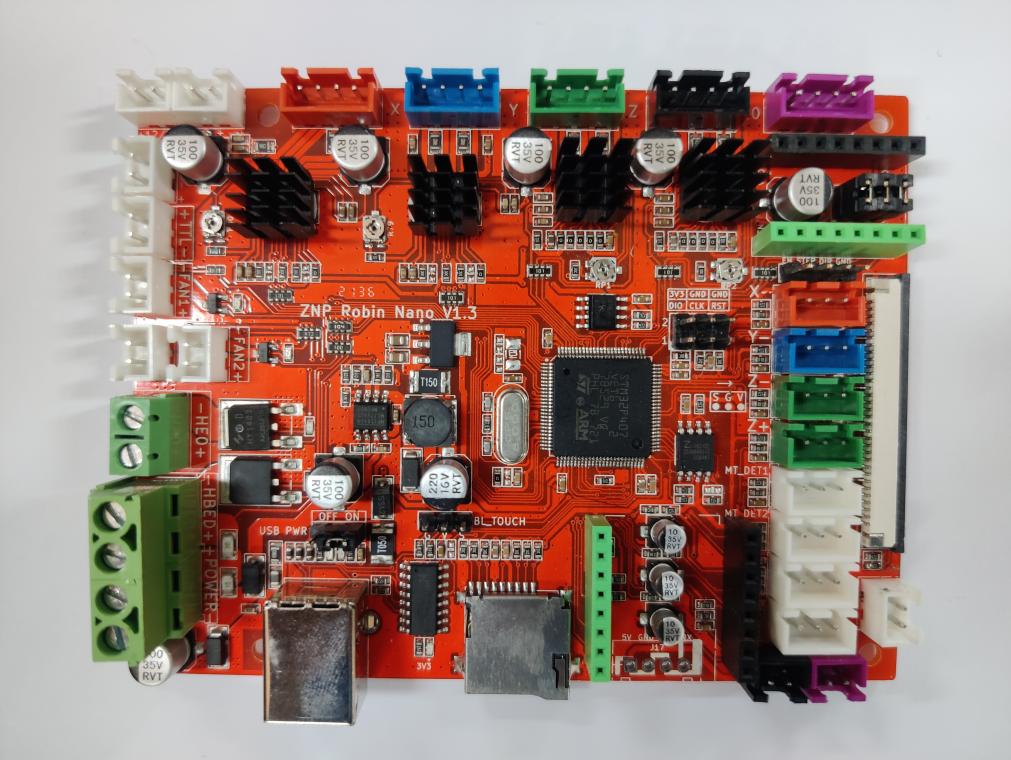
At present, the motherboards ZNP Robin Nano V1.2 and ZNP Robin Nano V1.3 support the latest marlin, which can be downloaded from the marlin official website.

Marlin URL：<https://marlinfw.org/meta/download/>

Original firmware URL：<https://www.elegoo.com/pages/3d-printing-user-support>

Note: Please confirm the motherboard model before compiling the firmware.



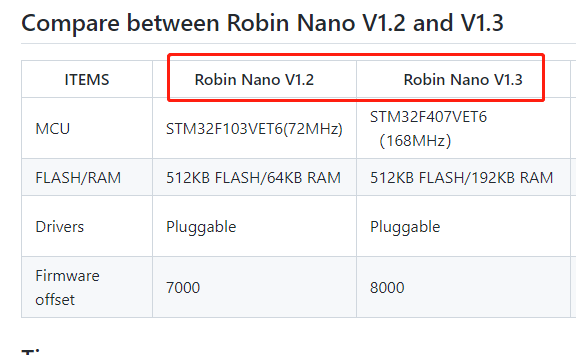


Configuration content:

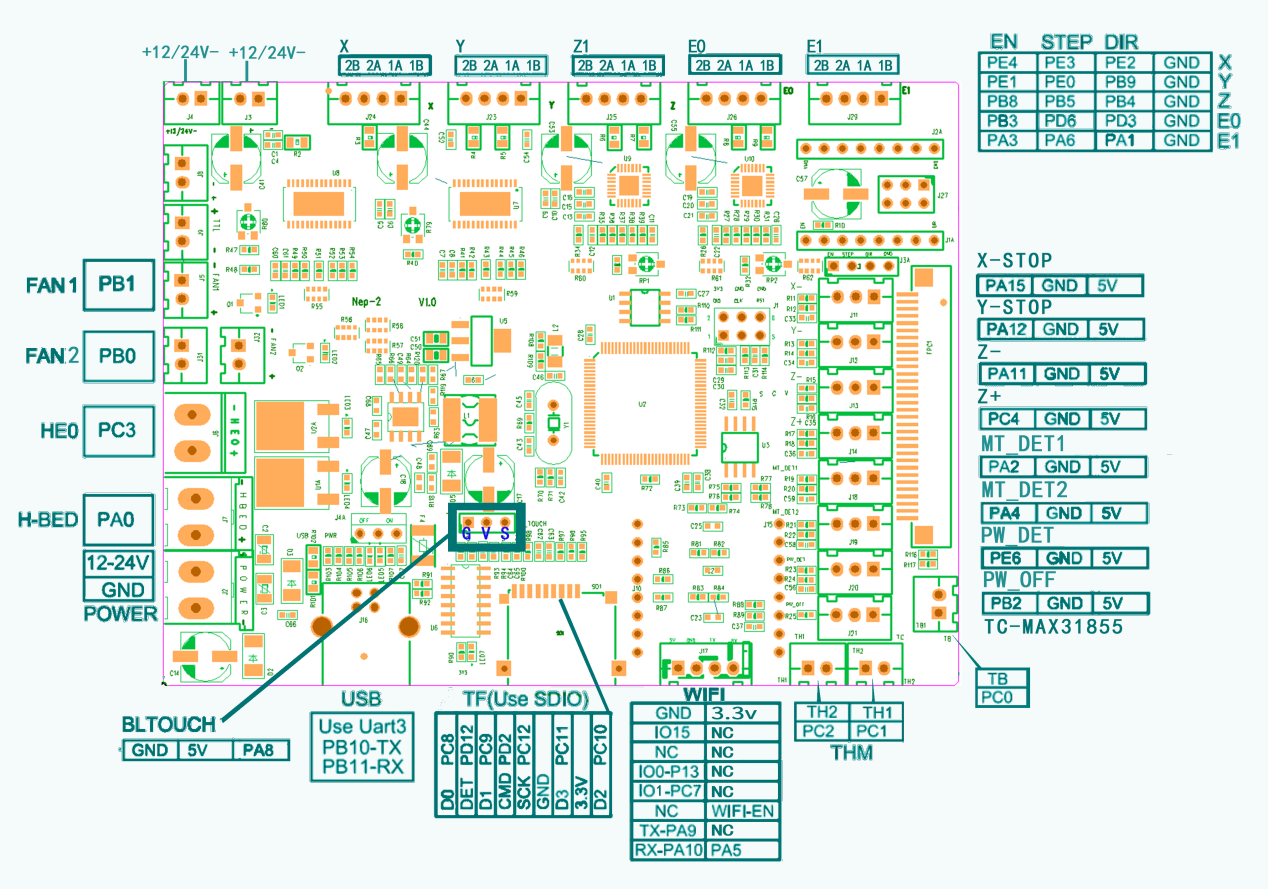
The motherboard ZNP Robin Nano V1.2 can refer to Robin Nano V1.2

The motherboard ZNP Robin Nano V1.3 can refer to Robin Nano V1.3

Reference URL：<https://github.com/makerbase-mks/MKS-Robin-Nano-V1.X>



ZNP Robin Nano V1.2 and ZNP Nano V1.3 the pin map same as the MKS Robin Nano V1.2 .The pin diagram is shown below.



Please don’t update V1.2 version's firmware to V1.3 motherboard.

**ZNP Robin Nano V1.2 build and update firmware**

Build config:

platformio.ini:

default\_envs = mks\_robin\_nano35

Configuation.h:

#define SERIAL\_PORT 3

#define BAUDRATE 115200

#define MOTHERBOARD BOARD\_MKS\_ROBIN\_NANO  
#define MKS\_ROBIN\_TFT35

#define TEMP\_SENSOR\_BED 1

#define SDSUPPORT

#define TFT\_LVGL\_UI

#define TOUCH\_SCREEN

#define INVERT\_X\_DIR false

#define INVERT\_Y\_DIR false

#define INVERT\_Z\_DIR true

#define INVERT\_E0\_DIR false

#define INVERT\_E1\_DIR false

#define DEFAULT\_AXIS\_STEPS\_PER\_UNIT   { 80, 80, 400, 90 }

#define DEFAULT\_MAX\_FEEDRATE          { 150, 150, 6, 70 }

#define DEFAULT\_MAX\_ACCELERATION      { 1000, 1000, 100, 5000 }

#define X\_BED\_SIZE 235

#define Y\_BED\_SIZE 235

#define Z\_MAX\_POS 260

Configuation\_adv.h:

#define E0\_AUTO\_FAN\_PIN PB0  
//#define USB\_FLASH\_DRIVE\_SUPPORT

//#define MULTI\_VOLUME

ini\stm32f1.ini:

[env:mks\_robin\_nano35]

#board\_build.rename          = Robin\_nano35.bin Cancel this line

board\_build.rename          = elegoo.bin Add this line

**Update firmware:**

* Enter the directory, copy the folder and to the TF card .pio\build\mks\_robin\_nano35\assets elegoo.bin
* Insert TF card to the motherboard, and you can see the update interface after power on.

**ZNP Robin Nano V1.3 build and update firmware**

Build config:

platformio.ini:

default\_envs = mks\_robin\_nano\_v1\_3\_f4

Configuation.h:

#define SERIAL\_PORT 3

#define BAUDRATE 115200

#define MOTHERBOARD BOARD\_MKS\_ROBIN\_NANO\_V1\_3\_F4

#define MKS\_ROBIN\_TFT35

#define TEMP\_SENSOR\_BED 1

#define SDSUPPORT

#define TFT\_LVGL\_UI

#define TOUCH\_SCREEN

#define INVERT\_X\_DIR false

#define INVERT\_Y\_DIR false

#define INVERT\_Z\_DIR true

#define INVERT\_E0\_DIR false

#define INVERT\_E1\_DIR false

#define DEFAULT\_AXIS\_STEPS\_PER\_UNIT   { 80, 80, 400, 90 }

#define DEFAULT\_MAX\_FEEDRATE          { 150, 150, 6, 70 }

#define DEFAULT\_MAX\_ACCELERATION      { 1000, 1000, 100, 5000 }

#define X\_BED\_SIZE 235

#define Y\_BED\_SIZE 235

#define Z\_MAX\_POS 260

Configuation\_adv.h:

#define E0\_AUTO\_FAN\_PIN PB0  
//#define USB\_FLASH\_DRIVE\_SUPPORT

//#define MULTI\_VOLUME

Ini\stm32f4.ini:

[env:mks\_robin\_nano\_v1\_3\_f4]

#board\_build.rename          = Robin\_nano35.bin Cancel this line

board\_build.rename          = elegoo.bin Add this line

**Update firmware:**

* Enter the directory, copy the folder and to the TF card .pio\build\mks\_robin\_nano\_v1\_3\_f4\assets elegoo.bin
* Insert TF card to the motherboard, and you can see the update interface after power on.