Build firmware Marlin 2.0.7.2 for BigTreeTech E3 RRF

download in source firmware : MARLIN 2.0.7.2

1 : Create folder Marlin in your directory « C:\
exemple: C:\marlin

2 : unzip Marlin-2.0.7.2.x-E3-RRF.rar and copy the extract folder to « C:\marlin

3 : open Vscode and go to platformio extensions. With platformio add folder from your C:\marlin\ Marlin-2.0.7.2.x-E3-RRF

4 : Now you can configure your files configuration.h and configuration_adv.h as you wish, with or without bltouch, neopixel, filament sensor etc ….

IMPORTANT : before build your marlin you need to have these settings to enable the wifi module

configuration.h

```
 95    // @section machine
 96
 97    /**
 98     * Select the serial port on the board to use for communication with the host.
 99     * This allows the connection of wireless adapters (for instance) to non-default port pins.
100     * Serial port -1 is the USB emulated serial port, if available.
101     * Note: The first serial port (-1 or 0) will always be used by the Arduino bootloader.
102     *
103     * :[-1, 0, 1, 2, 3, 4, 5, 6, 7]
104     */
105    #define SERIAL_PORT 3
106
107    /**
108     * Select a secondary serial port on the board to use for communication with the host.
109     * Currently Ethernet (-2) is only supported on Teensy 4.1 boards.
110     * :[-2, -1, 0, 1, 2, 3, 4, 5, 6, 7]
111     */
112    #define SERIAL_PORT_2 -1
113
114    /**
115     * This setting determines the communication speed of the printer.
116     *
117     * 250000 works in most cases, but you might try a lower speed if
118     * you commonly experience drop-outs during host printing.
119     * You may try up to 1000000 to speed up SD file transfer.
120     *
121     * :[2400, 9600, 19200, 38400, 57600, 115200, 250000, 500000, 1000000]
122     */
123    #define BAUDRATE 115200
124
125    // Enable the Bluetooth serial interface on AT90USB devices
126    //#define BLUETOOTH
127
128    // Choose the name from boards.h that matches your setup
129    #ifndef MOTHERBOARD
130      #define MOTHERBOARD BOARD_BTT_E3_RRF
131    #endif
132
```

be sure to
#define SERIAL_PORT 3
#define SERIAL_PORT_ 2 -1
#define BAUDRATE 115200

configuration_adv.h

```
3635   /**
3636    * Ethernet. Use M552 to enable and set the IP address.
3637    */
3638   #if HAS_ETHERNET
3639     #define MAC_ADDRESS { 0xDE, 0xAD, 0xBE, 0xEF, 0xF0, 0x0D }  // A MAC address unique to your network
3640   #endif
3641
3642   /**
3643    * WiFi Support (Espressif ESP32 WiFi)
3644    */
3645   //#define WIFISUPPORT         // Marlin embedded WiFi managenent
3646   //#define ESP3D_WIFISUPPORT   // ESP3D Library WiFi management (https://github.com/luc-github/ESP3DLib)
3647
3648   #if EITHER(WIFISUPPORT, ESP3D_WIFISUPPORT)
3649     #define WEBSUPPORT          // Start a webserver (which may include auto-discovery)
3650     #define OTASUPPORT          // Support over-the-air firmware updates
3651     #define WIFI_CUSTOM_COMMAND // Accept feature config commands (e.g., WiFi ESP3D) from the host
3652
3653     /**
3654      * To set a default WiFi SSID / Password, create a file called Configuration_Secure.h with
3655      * the following defines, customized for your network. This specific file is excluded via
3656      * .gitignore to prevent it from accidentally leaking to the public.
3657      *
3658      *   #define WIFI_SSID "WiFi SSID"
3659      *   #define WIFI_PWD  "WiFi Password"
3660      */
3661     #include "Configuration_Secure.h" // External file with WiFi SSID / Password
3662   #endif
```

be sure **don't uncomment**

//#define WIFISUPPORT
#define ESP3D_WIFISUPPORT

5 : Now you can build your firmware and have success compil

6 : the firmware is located in the folder C:\marlin\Marlin-2.0.7.2.x-E3-RRF\.pio\build\BIGTREE_E3_RRF

!! Be sure the firmware must absolutely be called firmware.bin before you copy into your board.

7 : when the file is in your Sdcard you have to put into your board and turn on your printer. Wait a moment and firmware is upload !

now we need to activate the wifi module so that it can communicate with your networks. Please refer to TUTORIAL ESP3D.

Create by So'6 Rallye