

H2 500°C upgrade kit, which works on H2 extruder, is developed by 3D printing R $_{\odot}$ D team of Shenzhen Big Tree Technology Co., Ltd. It is designed to meet geeks' demand.

Features:

- ☆ Maximum printing temperature: 500°C
- ☆ Titanium & copper heat break, lower thermal conductivity, thermal isolation
- ☆ For H2 extruder
- ☆ The nozzle is made of high temperature resistant hardened steel to ensure filament extrusion under high temperature
- ☆ Adopt red copper nickel-plated heating aluminum block, no color change at 500 °C.

Note: The all-metal heat break is only compatible with H2 extruder. If you need to use other models, just replace the heat break.

Heating rod specification:

Size of Heating Rod head:5*20mm

Power:70W

Operating voltage:24V

Fan specification:

Size:35*35*10mm

Voltage:24v

Speed:9000rpm (±10%)

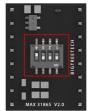
Cable length:1000mm

Terminal block:DuPont,2.54 pitch

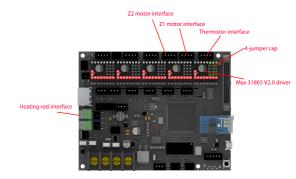
Thermistor Specification:

Size of thermistor head: φ4x30mm Withstand high temperature: 500°C Input: PT100 I. Hardware Configuration Driver: MAX31865 V2.0 To select PT100 mode. Select

To select PT100 mode. Select ON for 1 to 3 and OFF for 4.



Cable connection:





User Manual

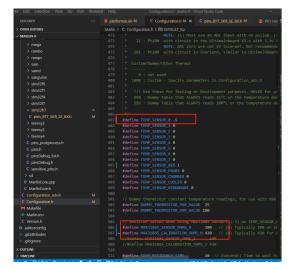


II. Firmware modification (marlin bugfix-2.0.x.2021.7.07) Nozzle 0 as shown. Nozzle 1 is the same.

(1) Configuring the configuration.h file

#define TEMP_SENSOR_0 -5
#define MAX31865_SENSOR_OHMS_0 100 // (Ω) Typically 100 or 1000
(PT100 or PT1000)

#define MAX31865_CALIBRATION_OHMS_0 430 $//(\Omega)$ Typically 430 for Adafruit PT100; 4300 for Adafruit PT1000



(2) Configure the configuration_adv.h file

Configure the following options:
#define THERMOCOUPLE_MAX_ERRORS 20
#define MAX_CONSECUTIVE_LOW_TEMPERATURE_ERROR_ALLOWED 10
#define SHOW_TEMP_ADC_VALUES
#define MI15 GEOMETRY REPORT

(3) PIN file configuration



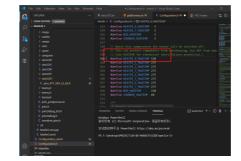
 Select the driver interface, delete the original driver definition, to avoid interference

As shown, take BIQU BX motherboard as an example, select E1 driver interface to connect max31865V 2.0 module.

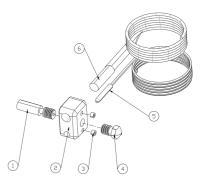
SPI pin of "#define"

//Thermocouple sensor
//if the TEMP_SENSOR value of - 5 is enabled in the configuration file, it will work
#define TEMP_0_MISO_PIN PG3 //SDO
#define TEMP_0_SCK_PIN PC7 //CLK
#define TEMP_0_NOSI_PIN PC6 //SDI
#define TEMP_0_C SPIN PC8

- 3) Please note that the SPI pins need to be the same as that used by the TMC driver.
- (4) Modify the maximum temperature



#define HEATER_0_MAXTEMP 520 Maximum temperature over 500° C



1.All- metal heat break 4.Print nozzle
2.Heating block 5.Thermistor
3.M3 set screw 6. Heating rod