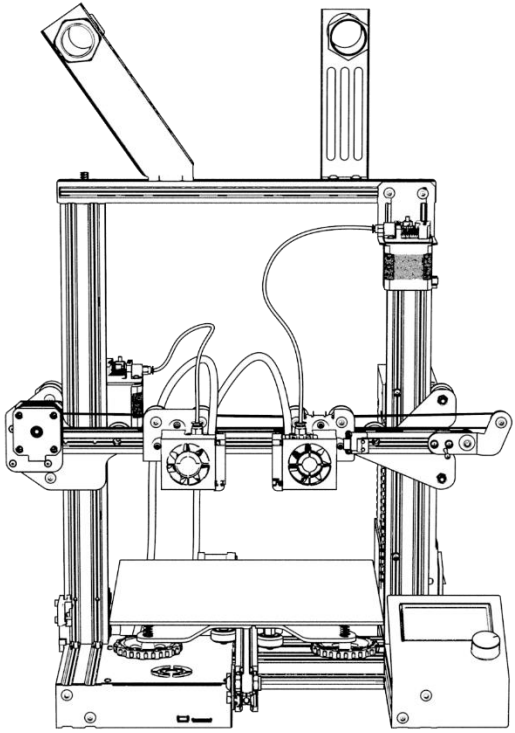


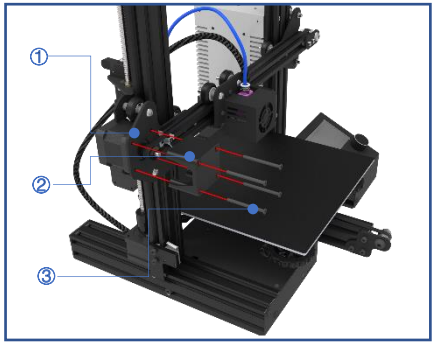
Ender3 IDEX upgrade kit list	
	
Belt driven wheel fixing frame	Extruder kit
	
X axis drive motor	Hotend
	
Motherboard	Adapter board

Basic parameters	
Adapted models	Ender 3 and similar models
volume	350x187x100mm
weight	1452g(Including packaging)
Molding technology	FDM Fused Deposition Molding
Number of Hotend	2PCS
Printing thickness	0.1mm - 0.3mm
Nozzle diameter	Standard 0.4mm
Printing accuracy	±0.05mm
Printing supplies	PLA
Slice support format	STL / OBJ/ AMF
printing method	Online / TF card offline / U disk offline / LAN
Independent printing area	108*220*250mm
Single print head printing area	163*220*250mm
Mirror mode printing area	75*220*250mm
Copy mode printing area	108*220*250mm
Single nozzle printing	Support
Mirror printing	Support
Copy print	Support

1、Installation of the upgrade kit

Step 1

（1）Use an Allen key to remove the screws that fix the cover of the X-axis timing belt wheel on the original machine.

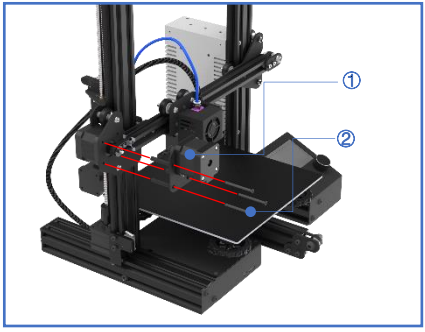


①Sliding group sheet metal

②Synchronous wheel cover

③M3x40 flat head hexagon socket screw

（2）Install the X-axis synchronous wheel drive motor



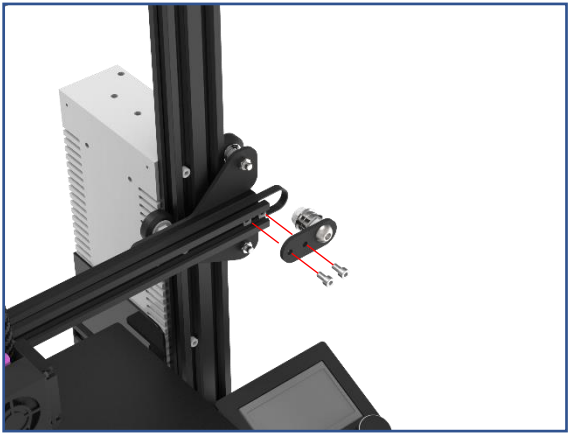
sheet metal in the upgrade kit to the position of the original synchronous wheel cover using the removed M3x40 flat-head hexagon socket screws.

①X-axis drive motor fixed sheet metal

②M3x40 flat head hexagon socket screw

Step 2

(1) Use an Allen key to remove the sheet metal of the X-axis timing belt idler of the original machine.

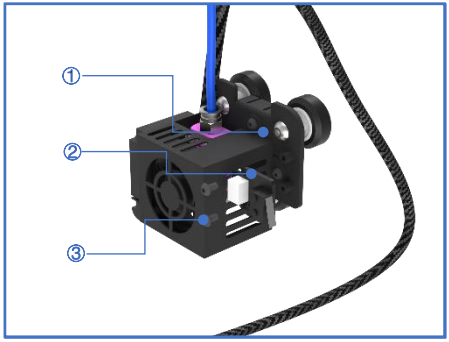


(2) Install the limit switch on the nozzle

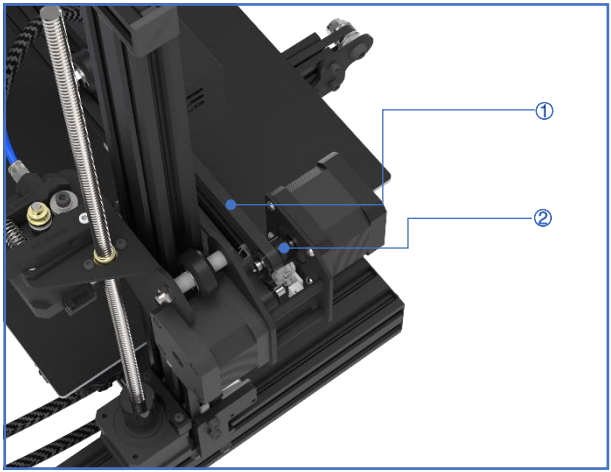
①hot end

②Limit switch

③M3x6 round head screw



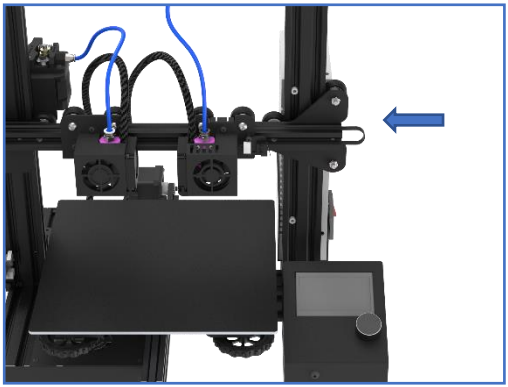
(3) Put the synchronous belt in the upgrade kit intothe synchronous wheel of the dual-nozzle X drive motor.



①Synchronous belt

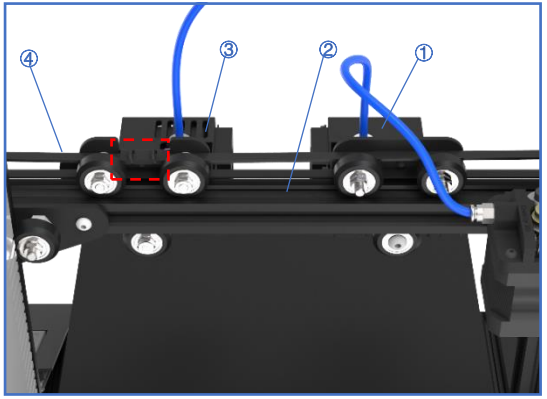
②Synchronous wheel

(4) Mount the print head on the X axis



(5) Pass the second synchronous belt up and down through the BOM wheel blocks of the two X-axis sliding groups, and fix the two ends of the synchronous belt two on the second nozzle sliding group in the upgrade kit.

①Print head 1

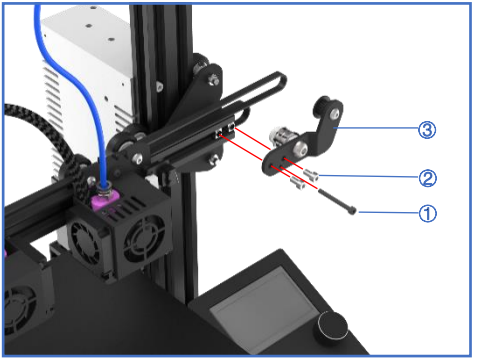


②Synchronous belt 1

③Print head 2

④Synchronous belt 2

（6）Install the double idler on the right side of the X-axis to fix the sheet metal, and place the timing belt on the



idler.

①M3x30 Hexagon Socket Cup Head Screw

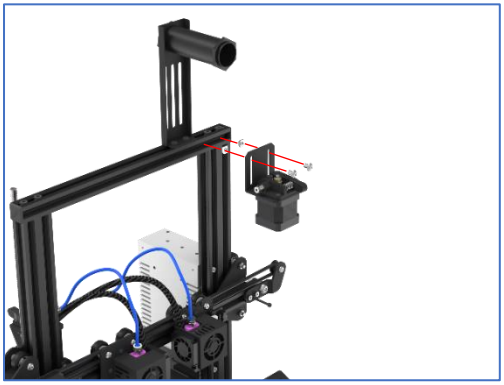
②M4x8 hex socket cup head screw

③Double idler fixed set machine

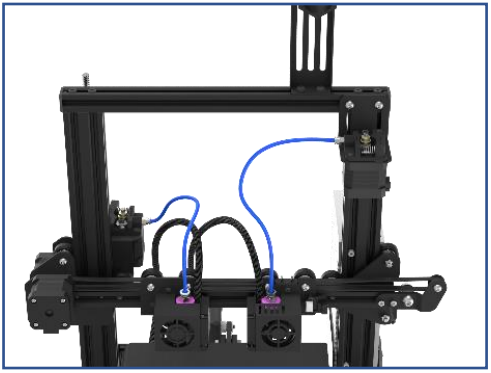
First move the double idler fixing kit in the X direction to adjust the tension of the belt, and then lock the M4x8 hexagon socket head screw with the boat nut to ensure that the boat nut is placed in the X-axis aluminum profile.

Step 3

The extruder in the upgrade kit is installed on the gantry beam, the boat nut is placed on the gantry beam, the screws are tightened, and the boat nut is placed vertically in the aluminum profile of the gantry beam to fix the extruder.

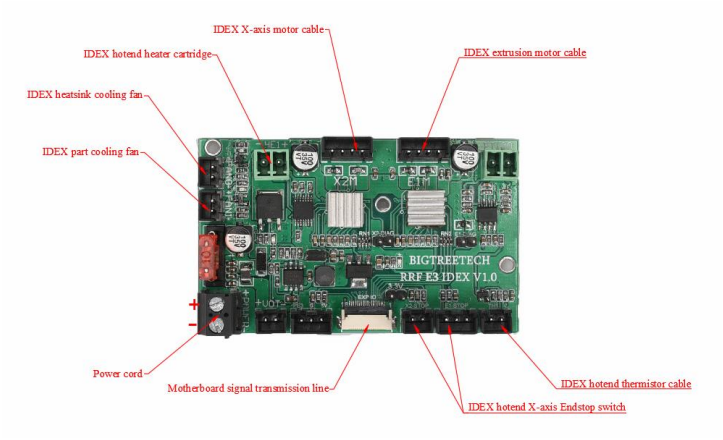


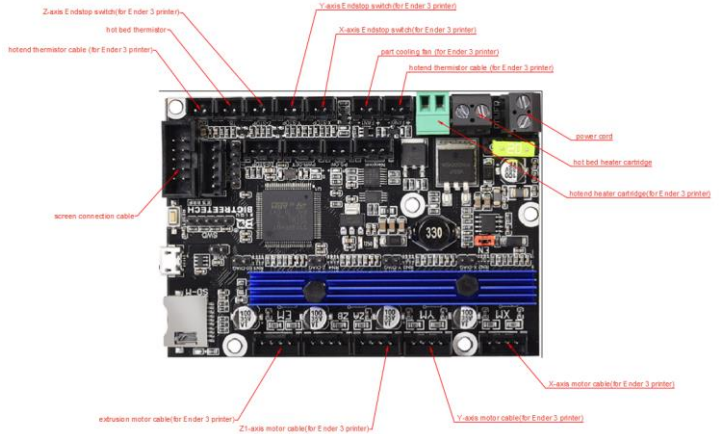
Step 4



Insert two Teflon tubes into the extruder respectively, the insertion depth is 50mm

2.Line connection





According to the picture above, connect the wiring correctly.

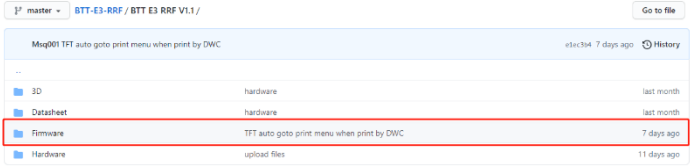
Installation and connection complete

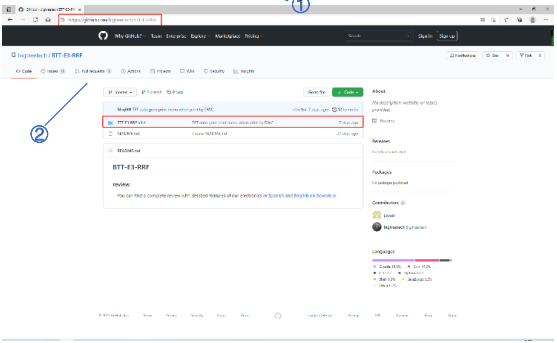
2. Firmware refresh

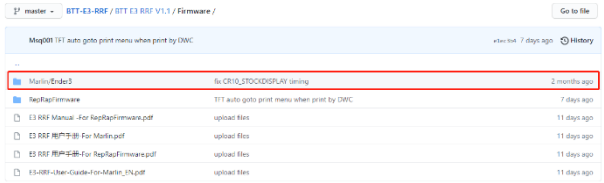
Download the Ender_3 IDEX firmware to the SD card through the following website.

https://github.com/bigtreetech/BTT-E3-RRF

Insert the SD card containing the firmware into the card slot of the motherboard, restart the machine, and refresh the firmware. After finishing, pull out the SD card.




1
2
BTT-E3-RRF
BTT-E3-RRF V3.0
README.md
review


master
BTT-E3-RRF / BTT E3 RRF V1.1 / Firmware /
Go to file
Msq001 TFT auto goto print menu when print by DWC
7 days ago
History
Marlin/Ender3
fix CR10_STOCKDISPLAY timing
2 months ago
RepRapFirmware
TFT auto goto print menu when print by DWC
7 days ago
E3 RRF Manual -For RepRapFirmware.pdf
upload files
11 days ago
E3 RRF 用户手册 For Marlin.pdf
upload files
11 days ago
E3 RRF 用户手册 For RepRapFirmware.pdf
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E3-RRF-User-Guide-For-Marlin_EN.pdf
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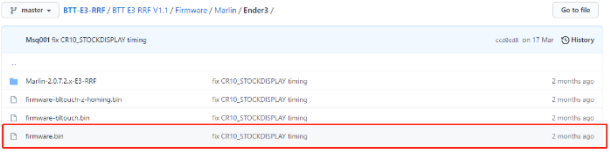
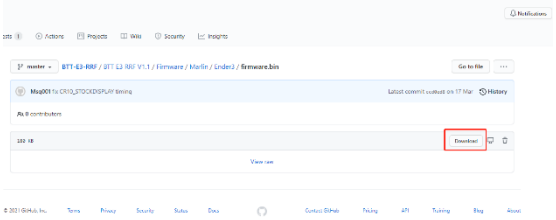
11 days ago


master
BTT-E3-RRF / BTT E3 RRF V1.1 / Firmware / Marlin / Ender3 /
Go to file
Msq001 fix CR10_STOCKDISPLAY timing
ccd8cd8 on 17 Mar
History
Marlin-2.0.7.2.x-E3-RRF
fix CR10_STOCKDISPLAY timing
2 months ago
firmware-bltouch-z-homing.bin
fix CR10_STOCKDISPLAY timing
2 months ago
firmware-bltouch.bin
fix CR10_STOCKDISPLAY timing
2 months ago
firmware.bin
fix CR10_STOCKDISPLAY timing
2 months ago


Notifications
Actions
Projects
Wiki
Security
Insights
master
BTT-E3-RRF / BTT E3 RRF V1.1 / Firmware / Marlin / Ender3 / firmware.bin
Go to file
Msq001 fix CR10_STOCKDISPLAY timing
Latest commit ccd8cd8 on 17 Mar
History
8 contributors
182 KB
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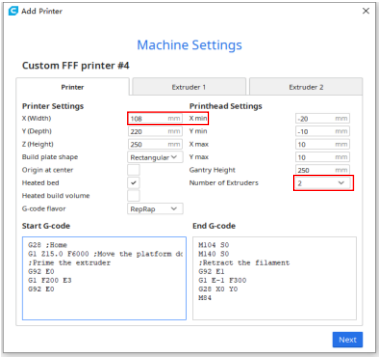
Pricing
API
Training
Blog
About

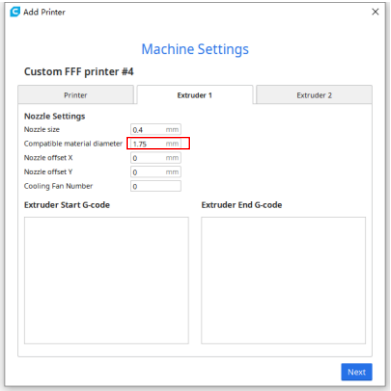
2.Operating instructions

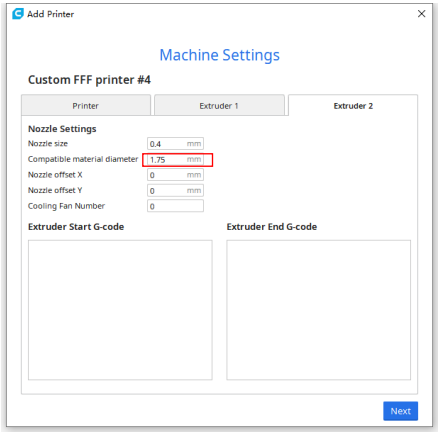
1. Printer parameter setting



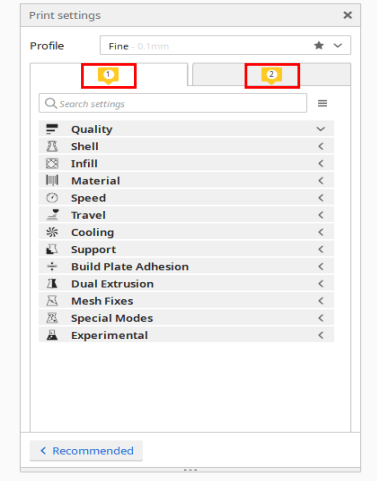
If you need to use two nozzles in printing, the printer X size is set to 108mm.

If you only need to use one nozzle for printing, the X size of the printer is set to 163mm.





After completing the setting of the print nozzle parameters, you can set the print parameters of the individual Hotends for slice printing.



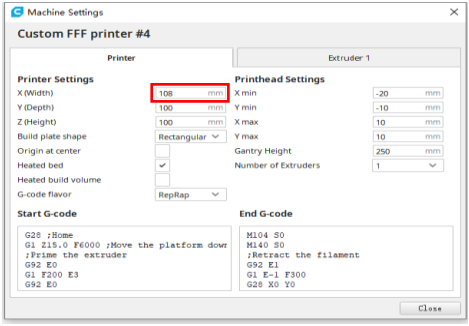
3.extensions

1. Copy or mirror printing

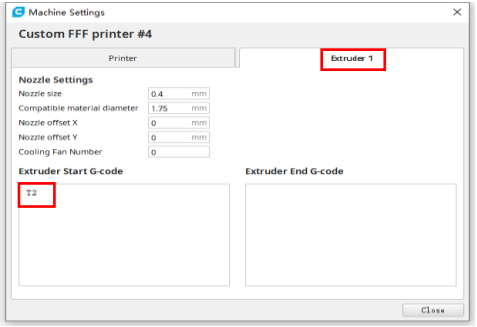
Open the basic parameter settings of the printer and set the number of extruders to "1"

1.1、Copy mode print settings

Set the X-axis width to 108mm



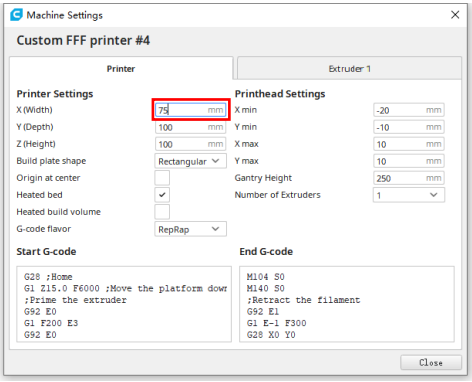
Enter "T2" in the script at the beginning of the extruder



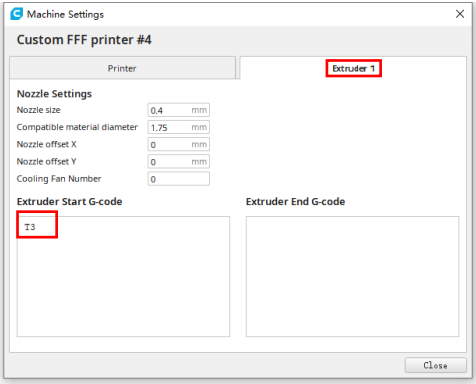
Complete basic parameter setting

1.2、Mirror printing mode

Need to set the X-axis width to 75mm



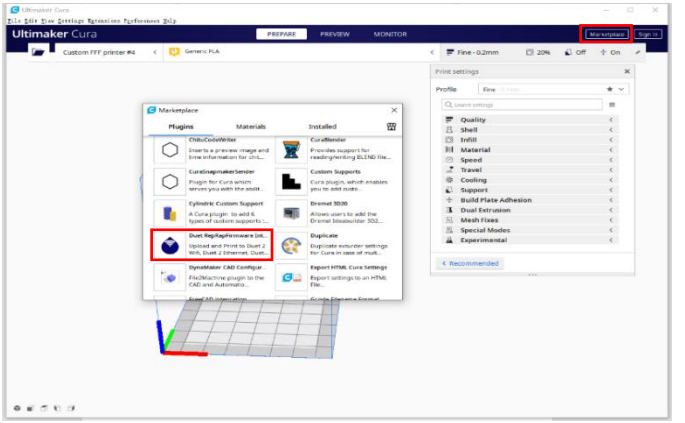
Enter "T3" in the extruder start script

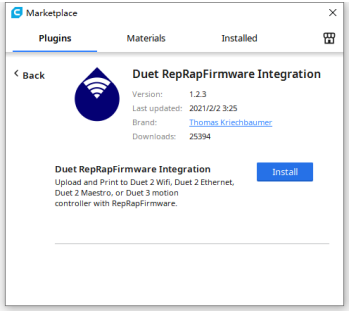


Complete basic parameter setting

2、Print online

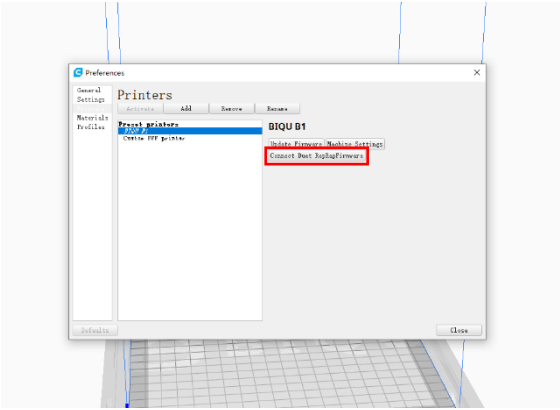
The DUET RRF plug-in can be installed in the plug-in market of CURA to send the CURA slice file directly to the printer for online printing.

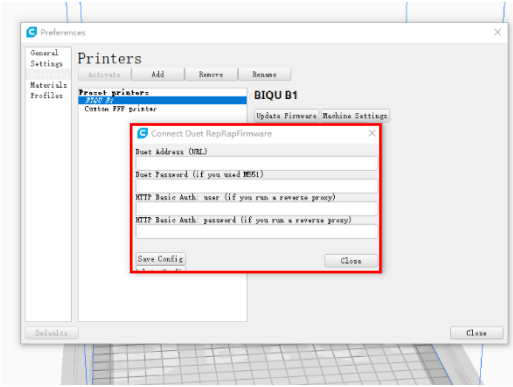




Click "Market" in the upper right corner of CURA to download and install the DUET RRF plug-in.

After the installation is successful, open the printer's basic settings interface, and after setting your printing parameters and IP address, you can directly send the sliced file to the printer for printing via CURA.





3、Connect the printer to the WIFI network

（1）You can send the M587 S "WIFI SSID" P "PASSWORD" through the USB cable to connect the printer to the WIFI network.

（2）In the SD card slot on the motherboard, there is an SD card. Use a card reader to read the internal file, find the file CONFIG.G, open it in text format and find the semicolon before M587 ";" delete it to achieve it Features.

However, if you choose to use the modified CONFIG file to connect to the WIFI, be sure to add ";" in front of M587 through the WEB terminal to comment it after the printer is successfully connected to the network.