



# V6 Repetier Configuration

Set up your Repetier Firmware to support your new E3D HotEnd


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# Repetier

## Step 1 — Download Repetier



- First things first: you're going to need a copy of Repetier.
  - If you are upgrading an existing 3D printer to use a V6 HotEnd, you should try to get a copy of your current firmware from your printer's manufacturer.
  - If you're building a new printer, or simply want to upgrade to the latest version of Repetier, download it at <https://www.repetier.com/download-now/>
-  If you download a fresh version of Repetier you'll have to configure more settings than the ones mentioned in this guide so that it will work well with your printer.

## Step 2 — Download Arduino



- Almost all printers use Arduino IDE to upload fresh firmware, so download it at <https://www.arduino.cc/en/Main/Software>

### Step 3 — Open Repetier in Arduino



- Unzip Repetier from the file you downloaded and put the resulting folder anywhere on your computer for safe keeping.
- Inside the unzipped folder, navigate to /Repetier-Firmware/Repetier, and open the Repetier.ino file. This should open every file in Repetier.
- Find the Configuration.h file
- Rather than manually editing the configuration file, you can also upload it to the [online configurator](#).

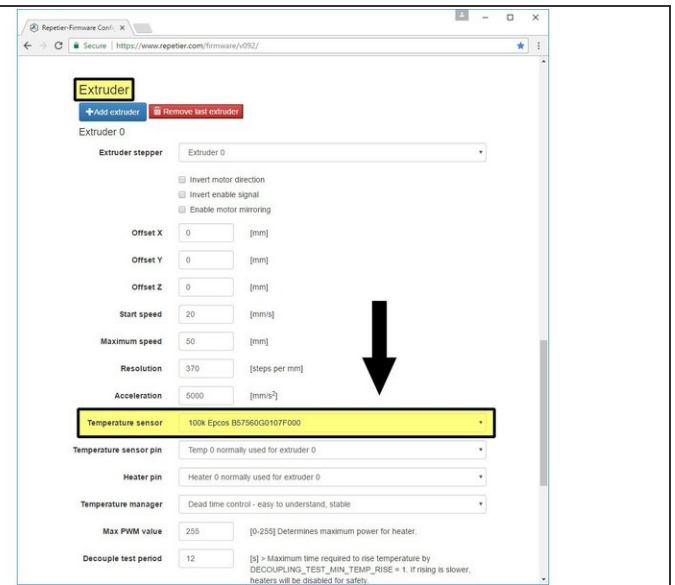
## Step 4 — Thermistor Settings

```

#define RAISE_START_COMMANDS ""
#define RAISE_END_COMMANDS ""
#define SHARED_EXTRUDER_HEATER 0
#define EXT0_OFFSET 0
#define EXT1_OFFSET 0
#define EXT2_OFFSET 300.000
#define EXT0_TEMPSENSOR_TYPE 8
#define EXT0_HEATER_PIN 100
#define EXT0_STEP_PIN 101
#define EXT0_DIR_PIN 102
#define EXT0_ENABLE_PIN 103
#define EXT0_ENABLE_INVERT 0
#define EXT0_DISABLE_PIN 104
#define EXT0_DISABLE_INVERT 0
#define EXT0_HEATER_INVERT 0
#define EXT0_STEP_INVERT 0
#define EXT0_DIR_INVERT 0
#define EXT0_ENABLE_INVERT 0
#define EXT0_DISABLE_INVERT 0
#define EXT0_MAX_FEEDRATE 50
#define EXT0_MAX_START_FEEDRATE 20
#define EXT0_MAX_ACCELERATION 5000
#define EXT0_HEAT_MANAGER 3
#define EXT0_RETRY_COLD 3
#define EXT0_FIL_INTERNAL_DRIVE_MAX 200
#define EXT0_FIL_INTERNAL_DRIVE_MIN 40
#define EXT0_FIL_CHANGE_OVER_TIME 1
#define EXT0_FIL_I 2
#define EXT0_FIL_I_0 60
#define EXT0_FIL_I_MAX 255
#define EXT0_ADVANCE_A 0
#define EXT0_ADVANCE_L 0
#define EXT0_ADVANCE_BACKLASH_STEPS 0
#define EXT0_WAIT_RETRACT_TIME 10
#define EXT0_WAIT_RETRACT_UNITS 0
#define EXT0_SELECT_COMMANDS ""
#define EXT0_DESELECT_COMMANDS ""
#define EXT0_EXTRUDER_COOLER_PIN -1
#define EXT0_EXTRUDER_COOLER_SPEED 255
#define EXT0_DECOUPLE_TEST_PERIOD 12000
#define EXT0_ZMM_FIL 1
#define EXT0_ZMM_FIL2 0

#define FEATURE_RETRACTION 1

```



- Manual Editing:
  - In the configuration.h file, find the highlighted line and update it to: `#define EXT0_TEMPSENSOR_TYPE 8`.
  - If you are installing multiple hotends, or installing this Lite6 as a second hotend, adjust the setting for the proper extruder instead (EXT1, EXT2, etc).
- Online Tool:
  - Navigate to the Tools tab, and scroll down to the Extruder Section.
  - Select ATC Semitec 104-GT2 from the list of temperature sensors.



## Step 6 — Upload Firmware



- Upload the new firmware to your electronics as you normally would. Typically this means plugging in your printer to your computer, selecting the correct COM port and board type, and pressing the upload button.
- If you're unsure of how to update your printer's firmware, check with its manufacturer.

Head back to the [V6 Assembly page](#) to finish the last few steps before you start printing.

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