

## Overview:

Tmc2209 have all the functions of tmc2208, can completely replace tmc2208. At the same time, tmc2209 have better heat dissipation, support larger current, support sensorless function.

## Characteristics:

- 1.Ultra silent
- 2.Large heat sink, good heat dissipation
- 3.Support sensorless feedback function.
- 4.Support uart mode by putting jumper caps instead of soldering on mks gen\_l V2.0, skr1.3 / 1.4, mks sgen\_l.

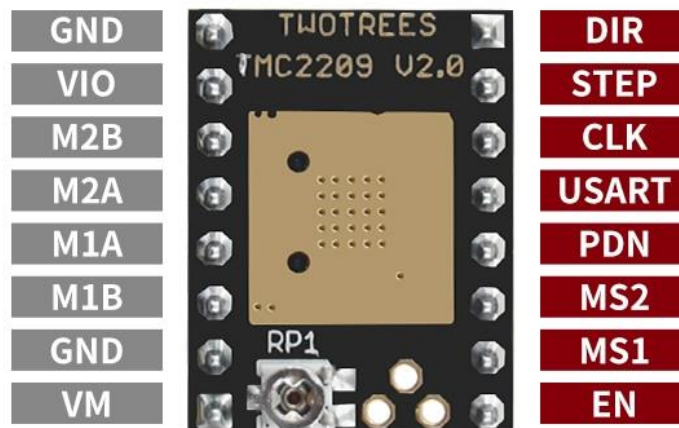
## Setting:

<b>Default current:</b>	1.25a
<b>Maximum current:</b>	2.5a
<b>Logic voltage:</b>	3.3v/5v
<b>Input voltage:</b>	5.5v-28v
<b>Microstep:</b>	up to 1/256
<b>Mode:</b>	dir / step, uart

## Microstep set:

Microstep cadre		
M0	M1	STEP
GND	GND	8
VCC_IO	GND	32
GND	VCC_IO	64
VCC_IO	VCC_IO	16

## TMC2209 pin map:



## Current driver regulation:

1. Verf measures the voltage of the Gnd and the central potentiometer.
2. Please do not connect the motors when measuring the voltage, or it is easy to burn the reader.
3. Please connect the power supply when measuring voltage, do not only connect the USB power supply.
4. Please pay close attention to the direction, do not wrongly insert!