



TMC5160 is a high-power half-bridge driver control chip with an external extended power transistor. The maximum current can reach 20% at high working temperature.

You can see more details in this link:

<Http://github.com/bigtreeetech/bigtreeetech-tmc5160-v1.0>

Video of action:

<Https://www.youtube.com/watch? V = P4Vyeivukqm & T = 68s>

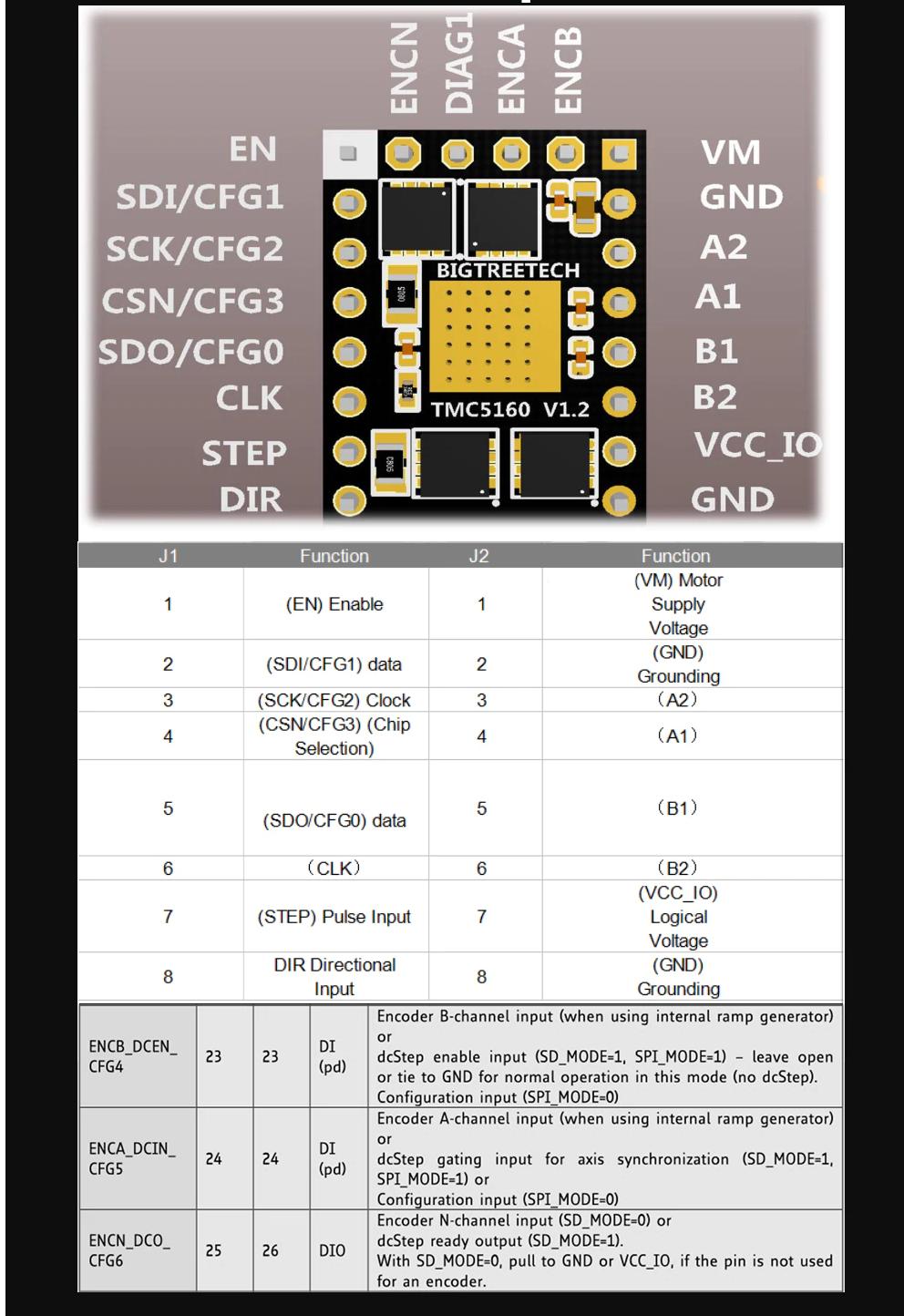


# Specification

Driver chip:	tmc5160-wa
Maximum subdivision:	256
Working mode:	SPI mode
Firmware:	Marlin2.0
Product size:	15.3mm*20.4mm
Power supply voltage (VM):	8V--35v
Maximum current:	4.4a (the sampling resistance determines the maximum current)

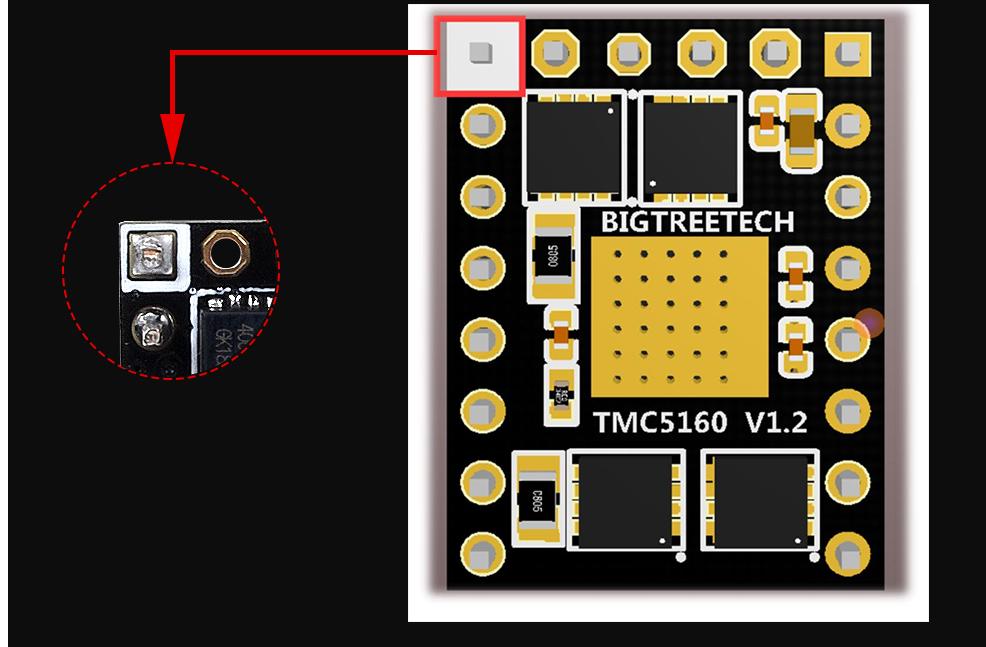
**stealthChop2™ for quiet operation and smooth motion**  
**Resonance Dampening for mid-range resonances**  
**spreadCycle™ highly dynamic motor control chopper**  
**dcStep™ load dependent speed control**  
**stallGuard2™ high precision sensorless motor load detection**  
**coolStep™ current control for energy savings up to 75%**

## Pin Description



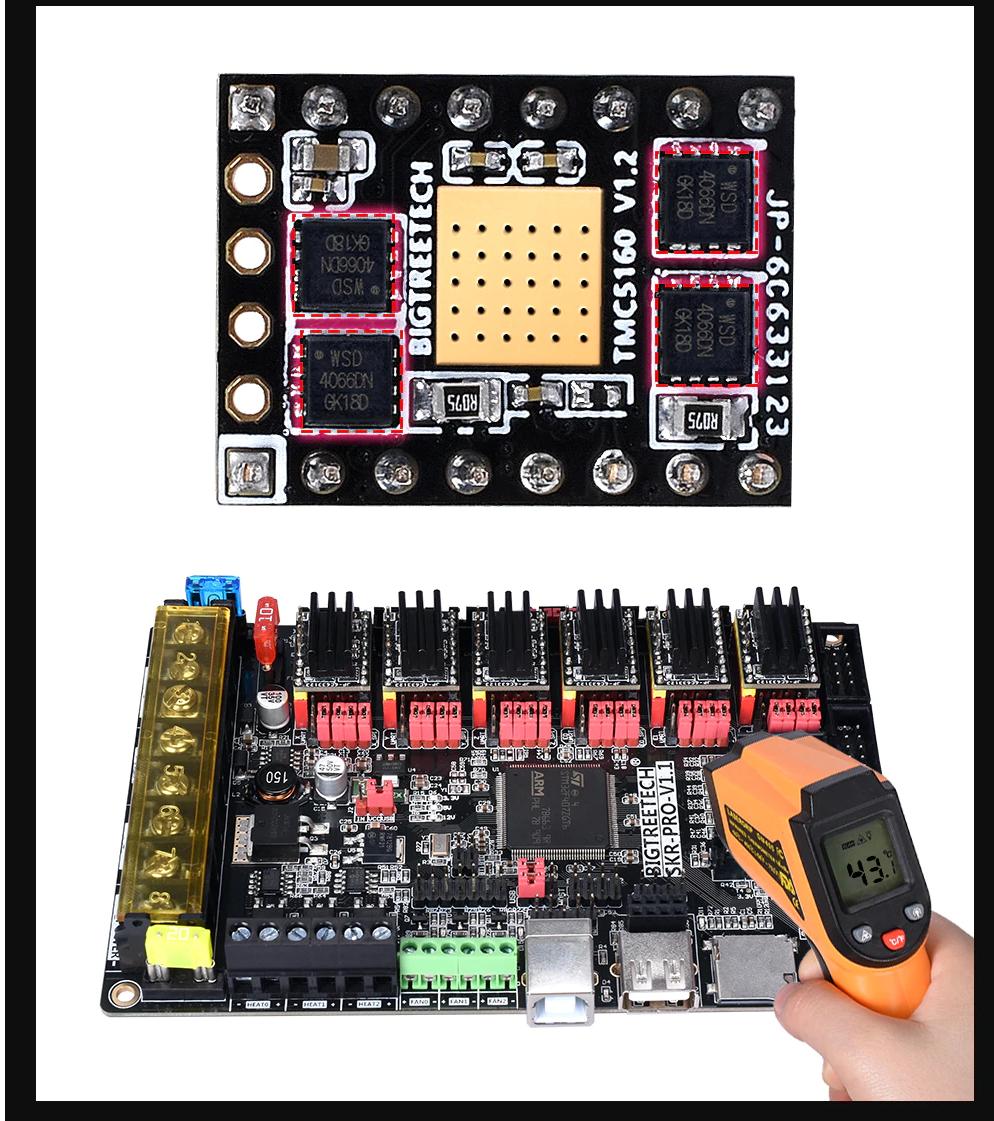
## Driver installation instructions

The pin with the white square on the driver is the enable (EN) pin as shown in the red box below.



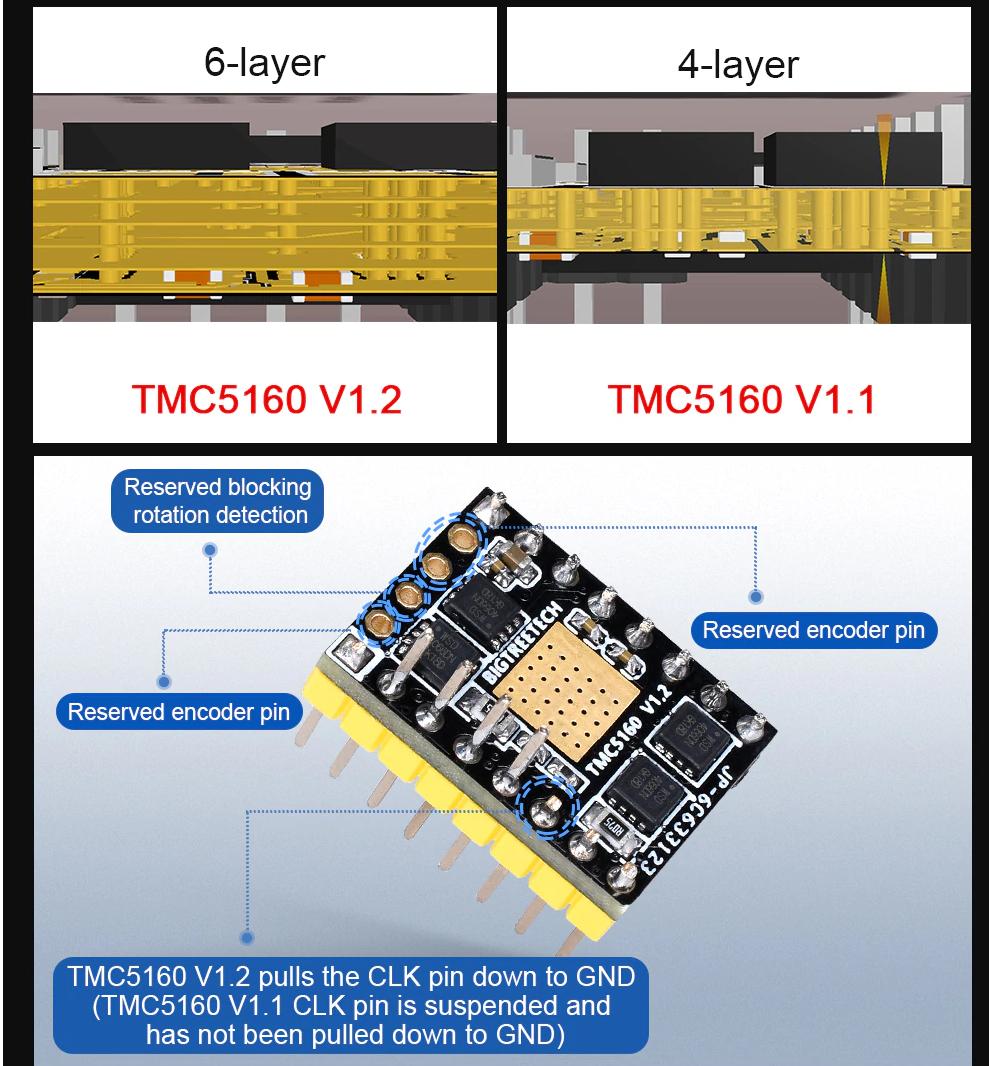
## 4PCS MOSFET--Low calorific value

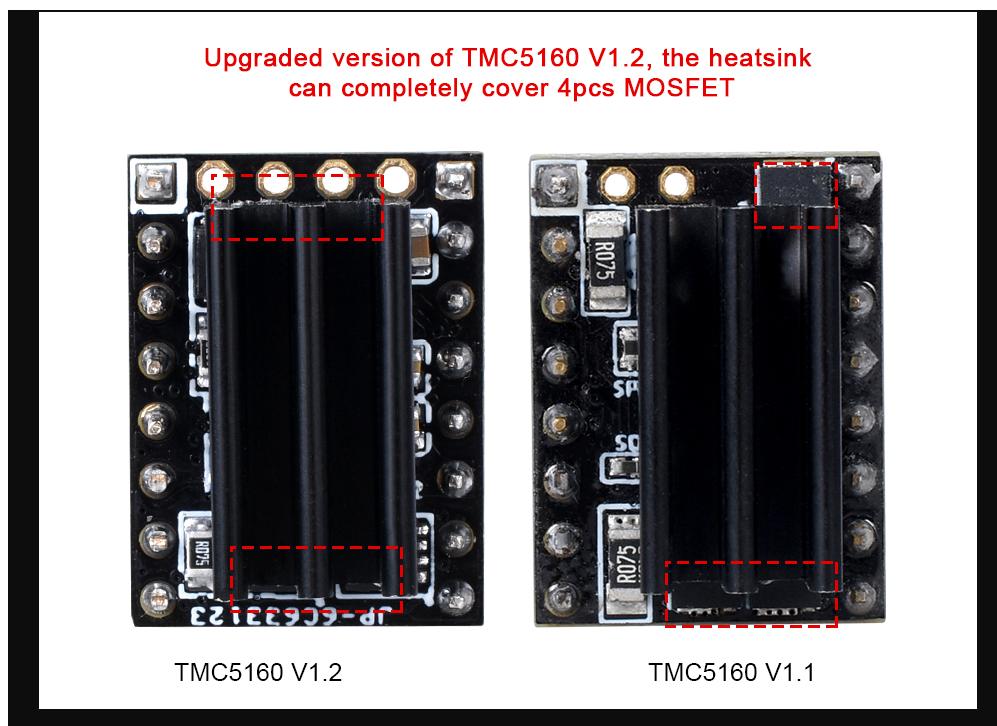
The maximum current can reach 20A (because the module is limited by area, the current cannot exceed 5A)



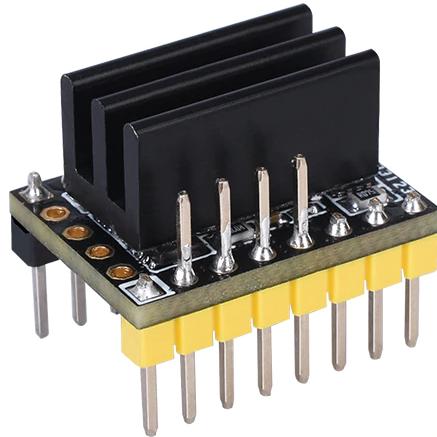
## 6-layer board

The TMC5160 V1.2 uses a 6-layer board, which is more complete than the TMC5160 V1.1 signal, and the work is more stable and the heat dissipation is better.





## Ultra-quiet



Below 10dB

## Avoid losing steps and jittering



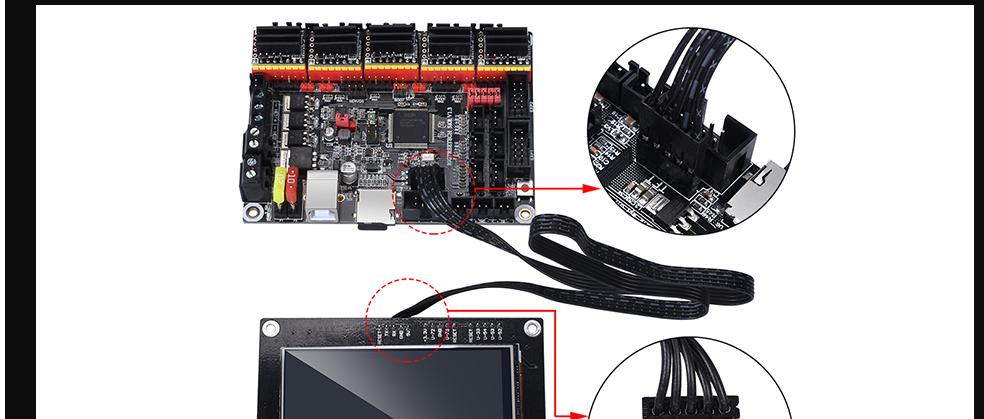
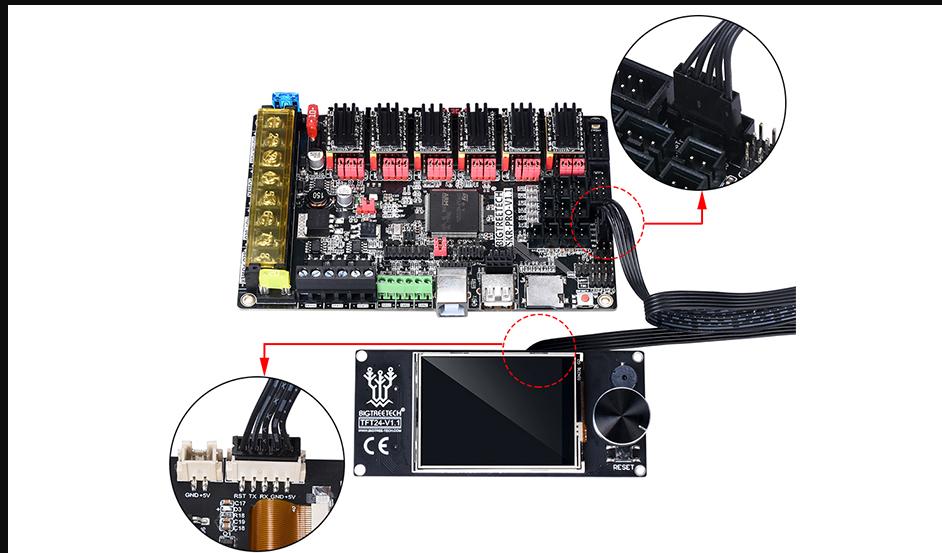
## Can drive 57 stepper motor

57MM MOTOR



## Wiring diagram

Only Support SPI working mode, currently only firmware for Marlin 2.0 and above supports the TMC5160 SPI mode.



## Product Display

