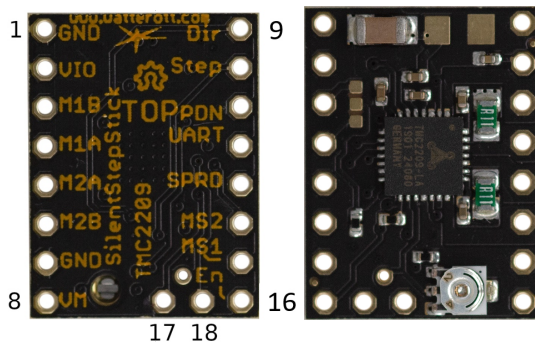


TMC2209 SilentStepStick

Document Revision V1.10 • 2019-May -20

Module Top View



Features and additional Resources

- TMC2209-LA stepper motor controller & driver
- Supply voltage 4.75-28V
- Continuous $I_{phase} = 1.4A_{RMS}$
- I_{phase} up to $1.77A_{RMS} = 2.5A_{peak}$ for a short time
- Quiet operation with StealthChop™
- Sensorless homing with StallGuard4™
- Energy savings with CoolStep™
- Configuration and extended diagnostics via UART
- Control via Step&Dir interface
- Board width 0.6", board height 0.8"
- 2x8 pin 0.1" header rows for pins/connectors
- Link to [additional information and IC data sheet](#)

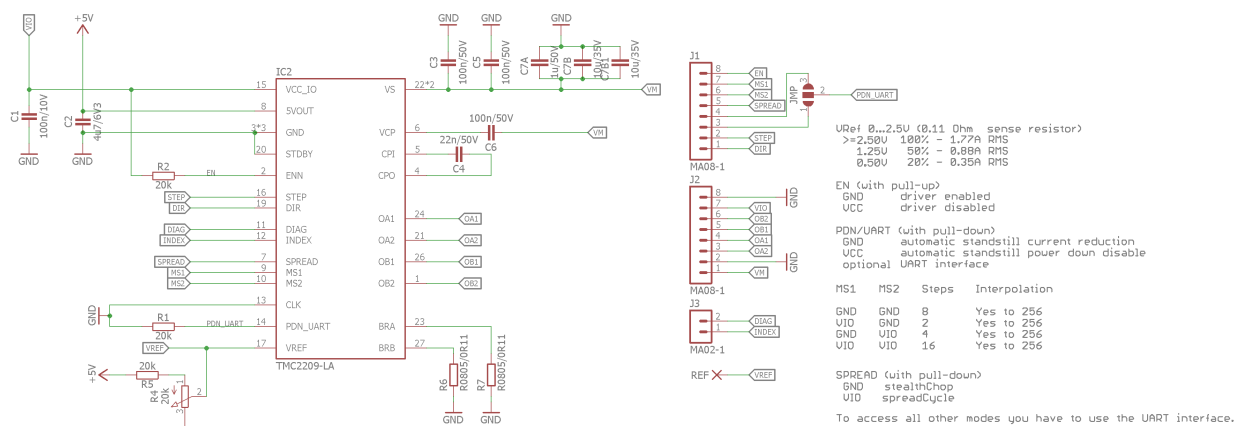
Pin List

Left	Signal	Right	Signal
1	GND	9	Dir
2	VIO	10	Step
3	M1B (Motor Phase B)	11	PDN
4	M1A (Motor Phase A)	12	UART
5	M2A (Motor Phase A)	13	SPRD
6	M2B (Motor Phase B)	14	MS2
7	GND	15	MS1
8	VM	16	EN
17	INDEX	18	DIAG

Bill of Materials

Pcs.	MPN	Value	Footprint	Description
1	100nF	100nF, 10V	0402	Capacitor
3	100nF	100nF, 50V	0402	Capacitor
2	10uF	10uF, 35V	1206	Capacitor
1	1uF	1uF, 50V	0805	Capacitor
1	POT-EVM3R	20k	POT_EVM3R	Potentiometer
3	RESISTOR-0402	20k	0402	Resistor
1	CAPACITOR-0402	22n/50V	0402	Capacitor
1	CAPACITOR-0402	4u7/6V3	0402	Capacitor
2	0R11	R0805/0R11	0805	Resistor
1	TMC2209-LA	TMC2209-LA	QFN28-PAD3.7	TRINAMIC TMC2209

Schematics



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Trinamic:

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