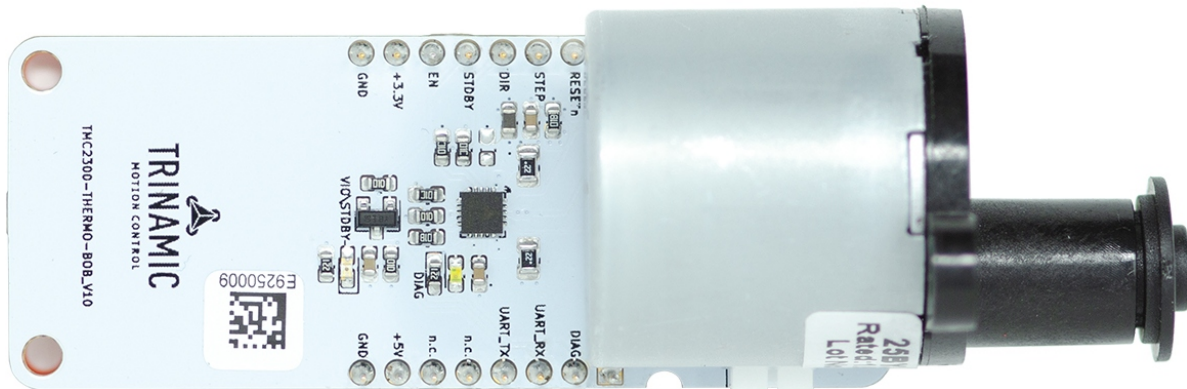# TMC2300-THERMO-BOB

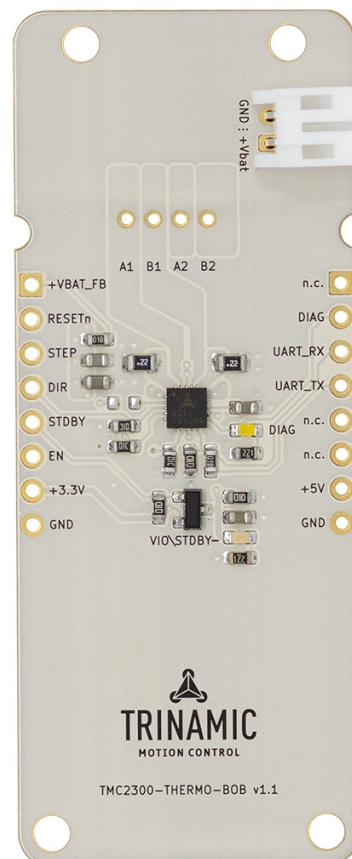Document Revision V1.00 • 2019-Nov-14

Module with Motor

Features and additional Resources

- TMC2300 low voltage stepper motor driver
- Battery Supply via 2xAA cells via JST S2B-PH-K-S connector (typically +3V)
- Onboard Stepper Motor Goot 25BYJ12-60 1.5V/1A
- Interface to Microchip PIC-IoT Board
- StealthChop2™silent motor operation
- Board size 1.0" x 2.5"
- 2x8 pin 0.1" header pin holes
- Link to additional information and IC data sheet
- Basic software project based on MPLAB X IDE can be provided.

Board Top View without Motor

Pin List

Left	Signal	Right	Signal
+VBAT_FB	Supply feedback to MCU ADC	n.c.	not used
RESETn	not used	DIAG	diagnosis signal to MCU
STEP	Step signal to TMC2300	UART_RX	UART receive line from MCU
DIR	Direction signal to TMC2300	UART_TX	UART transmit line to MCU
STDBY	Standby control to TMC2300	n.c.	not used
EN	Enable control to TMC2300	n.c	not used
+3.3V	VCCIO	+5V	not used
GND	Ground	GND	Ground

TRINAMIC
MOTION CONTROL

Schematics