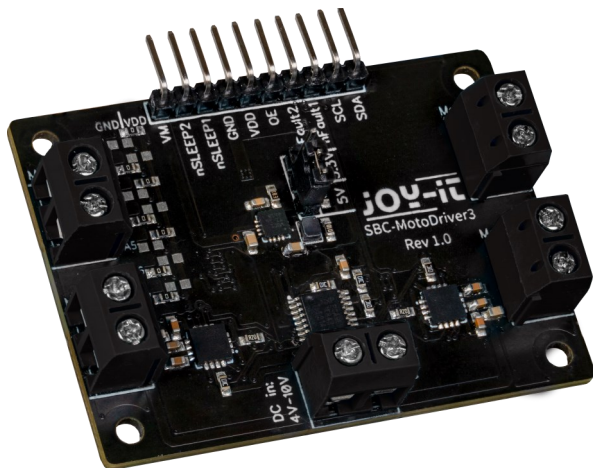# SBC-MOTODRIVER3
Motor driver board for DC and stepper motors

With the MotoDriver3 you have the possibility to control and power up to four DC motors or two stepper motors. The connected motors are controlled via the PCA9634 chip, which provides an I2C interface.

The MotoDriver3 offers an integrated voltage conversion which allows to provide an adjustable voltage of 3.3 V or 5 V for microcontrollers and selected single board computers. For this purpose, only a voltage source is connected to the "DC in" input.

Thanks to the MotoDriver3, there is no need for additional power supplies for the motors or the use of large amounts of cables. The expansion board enables precise control of the motors with a constant voltage in the range of 4 V to 10 V.

MAIN FEATURES

Scope of delivery	SBC-MotoDriver3
Compatible with	Raspberry Pi, Raspberry Pi Pico, Arduino, micro:bit and more
Motor driver IC	DRV8833
Driver IC	PCA9634
Communication interfaces	I²C Default address: 0x15
Special features	On-board voltage conversion from "DC in" to 5 V or 3.3 V, selection of I2C addresses of the driver IC by solder bridges, control of 4 DC motors/2 steppers via I2C possible

TECHNICAL SPECIFICATIONS

Logic level	3.3 V (5 V Tolerant)
Voltage range of VM pin and "DC in" input	4 - 10 V
Voltage range motors (DC & Stepper)	4 - 10 V
Power consumption motors	DC: Max. 1.5 A per motor Stepper: Max. 1.5 A per bridge
Operating temperature	-40 - +85 °C
Maximum current output of the integrated voltage converter	1 A (maximum value which can be used to supply microcontrollers or single board computers)

MORE DETAILS

Item number	SBC-MotoDriver3
Dimensions	57 x 47x 14 mm
Weight	18 g
EAN	425023682612
Customs tariff number	8473302000