

ATOM H-Bridge Driver Kit (DRV8876)



Description

ATOM HDriver is a H-bridge motor driver accessory for M5Atom. It integrates the DRV8876 motor driver chip, which supports **9-24V/DC voltage input** (The inline DC/DC circuit supplies power to the whole device, the ADC pin G33 is directly connected to the voltage divider circuit and can monitor the power input at any time) The current output is **1.5A**, **max 2A**, It can be used for DC motor speed regulation and forward and reverse control. The driver integrates N-channel H-bridge, charge pump regulator, current detection and regulation, current proportional output and protection circuit (protection function integration: power supply undervoltage lockout (UVLO), charge pump undervoltage (CPUV), output overvoltage Current (OCP) and device over temperature (TSD), fault conditions are also indicated by the **FAULT** pin).

Product Features

- N-channel H-bridge motor driver
 - Drives one bidirectional brushed DC motor
 - Other resistive and inductive loads – DRV8876: 700-mΩ (High-Side + Low-Side)
- High output current capability
 - output 1.5A, Peak 2A – H-bridge control modes
- 3.3-V logic inputs
- Spread spectrum clocking for low electromagnetic interference (EMI)
- Integrated protection features
 - Undervoltage lockout (UVLO)
 - Charge pump undervoltage (CPUV)
 - Overcurrent protection (OCP)
 - Automatic retry or outputs latched off(IMODE)
 - Thermal shutdown (TSD)
 - Automatic fault recovery
 - Fault indicator pin (nFAULT)

Included

- 1x ATOM Lite
- 1x ATOM H-driver
- 1x 3.96*4P Male
- 1x M2 Hex Key
- 1x M2*8mm Hexagon socket cup head machine screw
- 1x TYPE-C USB Cable(20cm)

Application

DC motor control

Specification

Specification	Parameter
Power Input	9-24V/DC
Current Output	output 1.5A, peak 2A
Net weight	16g
Gross weight	36g
Product Size	24*48*18mm
Package Size	54*54*20mm

