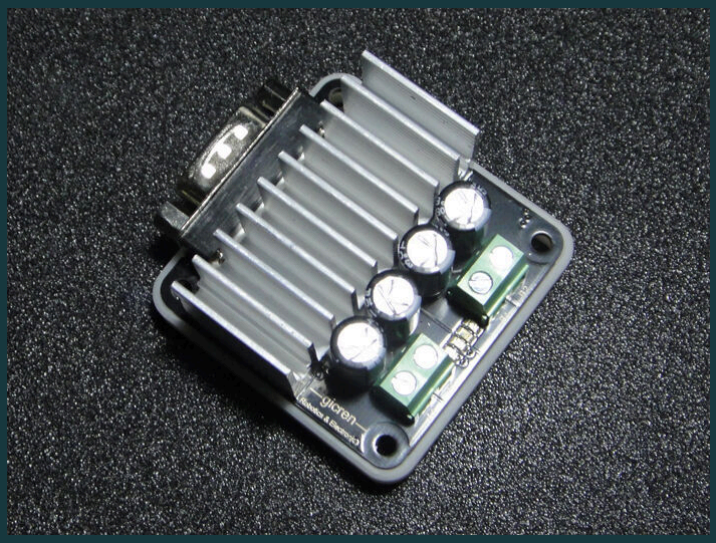
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INDUSTRIAL PRODUCT DATASHEET

Booster-B24V2A5(Brushed DC Motor Controller&Dual H-bridge)

Booster-B24V2A5: a dual H-bridge driver with 18 control modes, RS485/I2C, and comprehensive protections for brushed DC motor and LED control.

SKU	UPDATED	PRICE
105990025	2024-08-09 02:02:38	$39.00(Excl. VAT)



Overview



The Booster-B24V2A5 is a dual H-bridge power driver integrating 2*4 N-Channel MOSFETs (RDS(ON) < 3mΩ) with flexible protections including Under-Voltage, Over-Voltage, Over-Temperature, Over-Current, Out-Of-Control, and Power-Reverse. It offers RS485 and I2C interfaces sharing a user register, 18 control modes, and is suitable for brushed DC motors, high-power LEDs, and similar applications.

Key Features

Strictly speaking, Booster-B24V2A5 is a dual H-bridge power driver, which integrates 2*4 N-Channel MOSFETs(with low Drain-Source On-Resistance, RDS(ON)<3mΩ) and various protections(reliable and flexible). It can be used for controlling the brushed DC motor, high-power LED and so on. In addition, it integrates RS485 and I2C into one connector, and they share the same user register, so it can be used via any one of the two interfaces at any time. All functions can be performed by reading or writing the user register, except for a few special operations(please refer to the corresponding communication protocols for details), which is similar to the MCU operation.

Features：

- It integrates various protections(Under-Voltage, Over-Voltage, Over-Temperature, Over-Current, Out-Of-Control and Power-Reverse). The response-time of the Over-Current protection can be flexibly set and performed by hardware(comparator), which makes the protection more timely and reliable.
- There are 18 control modes for different applications(see below).
- It integrates a stable and high-efficiency RS485, and the baud rate can be detected automatically. There is no instruction packet loss when the baud rate is not higher than 28800bps, otherwise the first instruction packet will be discarded. Furthermore, it is recommended to send the sync bytes(0xff 0xff 0xff 0xff) first when the baud rate is higher than 28800bps.
- It integrates a stable and high-efficiency I2C.

Specification：

Supply Voltage : DC 6 ~ 24V
Continuous Current : 2 * 5A / 1 * 10A (Just limited by D-Sub connector, 2*10A / 1*15A for mosfets and sampling resistors.)
Baudrate Range ：1200 ~ 115200bps
I2C Speed : 100KHz
Size : 54.5mm * 50mm * 30.5mm (L*W*H)
We have adapters for this controller:**GDA-HLB1**，**GDA-HLU1** and **GDD-FAN**.

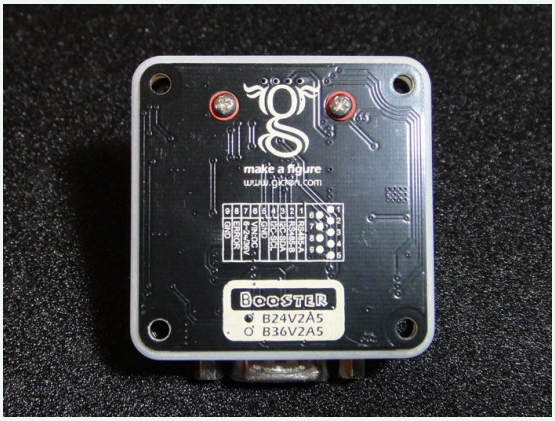
For more information,please click **here** to download.

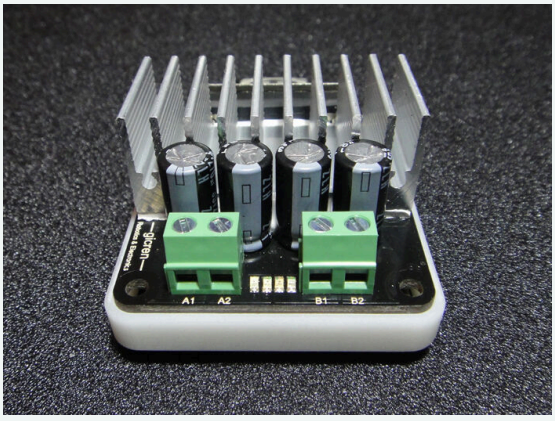
Visit **here** for updated documents of Gicren's products

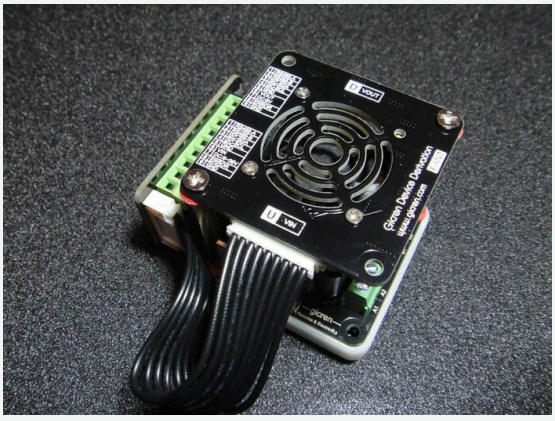
Technical support：**gicren(at)outlook.com**

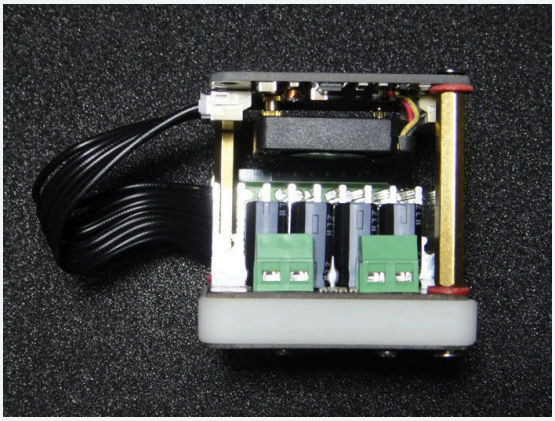
Product Gallery











Compliance & Logistics

HSCODE	
ROHS	1

Resource Links

- https://www.seeedstudio.com/Booster-B24V2A5-Brushed-DC-Motor-Controller-Dual-H-bridg-p-2259.html

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