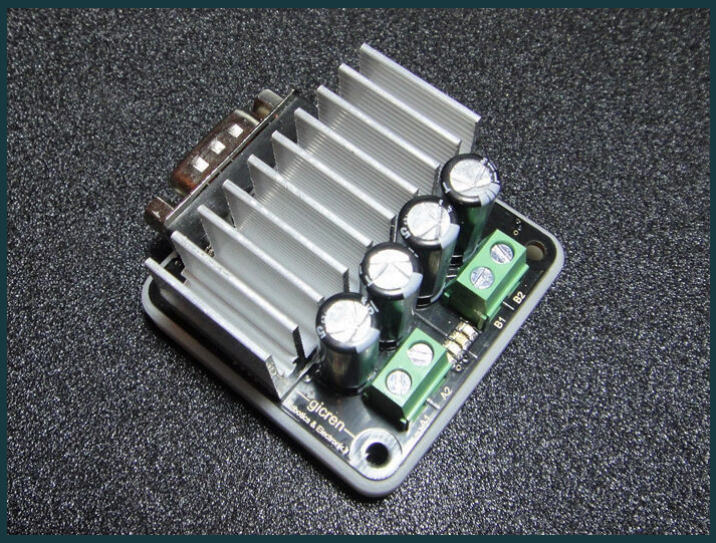
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INDUSTRIAL PRODUCT DATASHEET

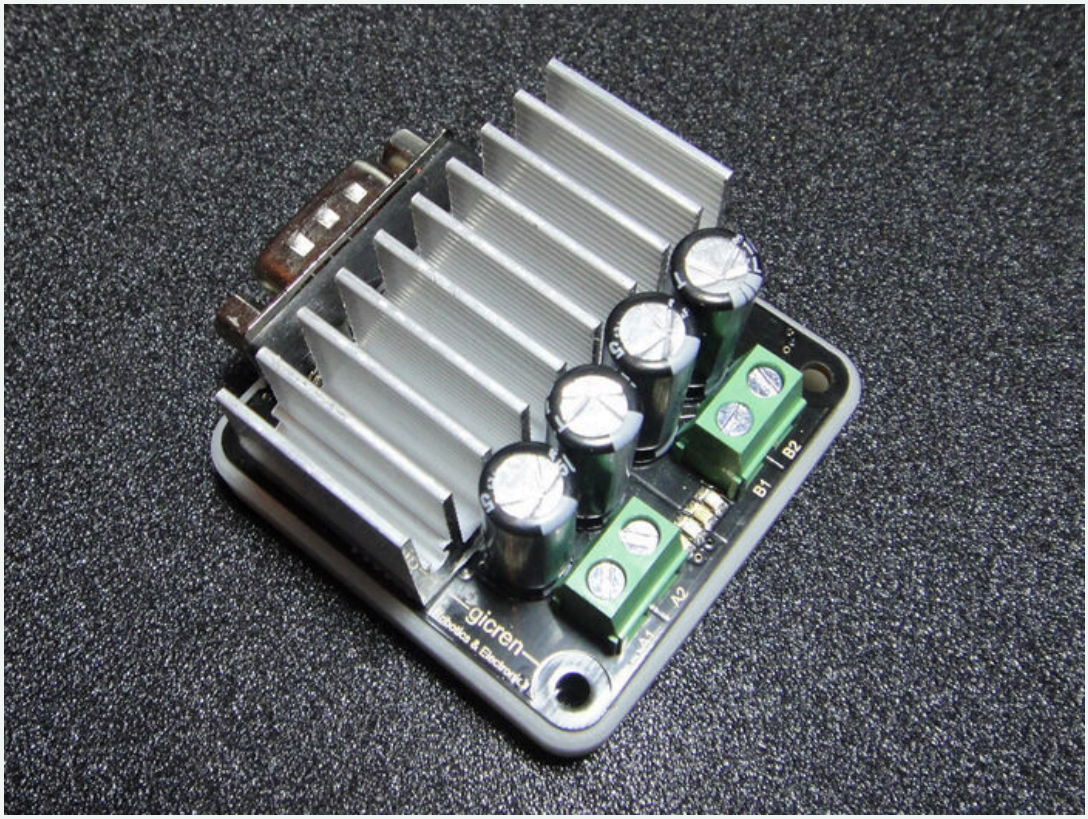
Booster-B36V2A5(Brushed DC Motor Controller&Dual H-bridge)

Dual H-bridge power driver with RS485/I2C and comprehensive protections for versatile motor and LED control.

SKU	UPDATED	PRICE
105990026	2024-08-09 02:02:38	$49.00(Excl. VAT)



Overview



The Booster-B36V2A5 is a dual H-bridge power driver with integrated low RDS(ON) MOSFETs and flexible protections, suitable for brushed DC motors, high-power LEDs, and other applications. It offers 18 control modes and supports RS485 and I2C communication via a shared connector for easy register-based operation.

Key Features

Strictly speaking, Booster-B36V2A5 is a dual H-bridge power driver, which integrates 2*4 N-Channel MOSFETs(with low Drain-Source On-Resistance, RDS(ON)<1.6mΩ) 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 ~ 36V
Continuous Current : 2 * 5A / 1 * 10A (Just limited by D-Sub connector, 2*15A / 1*20A 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**.

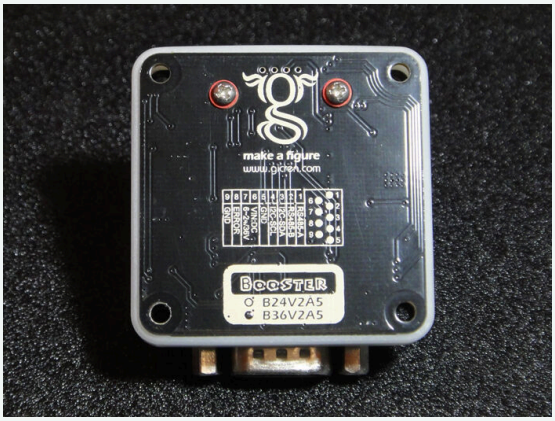
For more information,please click **here** to download.

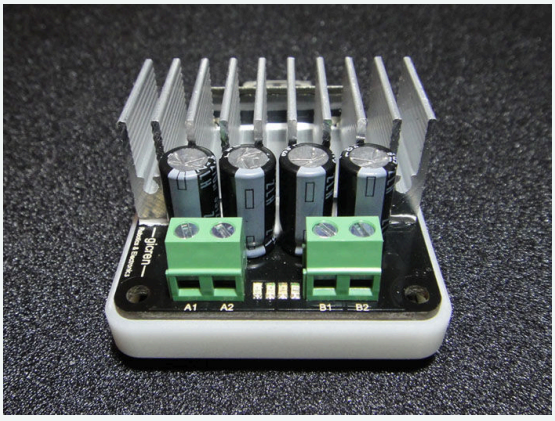
Visit **here** for updated documents of Gicren's products

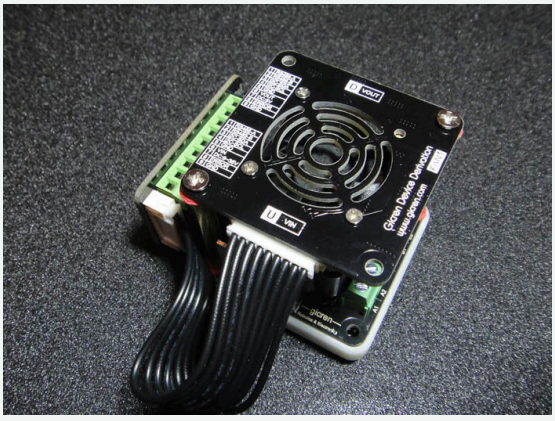
Technical support：**gicren(at)outlook.com**

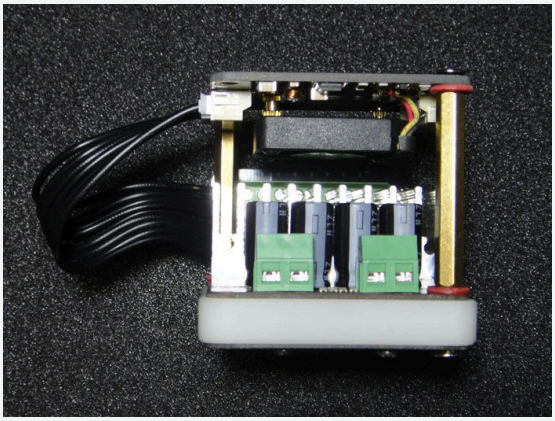
Product Gallery











Compliance & Logistics

HSCODE	
ROHS	1

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- https://www.seeedstudio.com/Booster-B36V2A5-Brushed-DC-Motor-Controller-Dual-H-bridg-p-2260.html

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