**Introduction**

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)

**Tool**

“Booster\_B24V2A5\_Tool.jpg”