

Robot-R-Us Singapore

Robot R Us

Dual Channel 10A DC Motor Driver for RC, Analog, PWM, and Serial

SG\$66.50



SmartDriveDuo10 is able to drive two brush motor at 10A each. It has the capability to accept RC (Radio Control) signal for mix mode drive, analog voltage from potentiometer, PWM from microcontroller, and even controlled via UART command. The operation modes is configure by the DIP switch on MDDS10. The commonly DIP switch configurations are printed at the back of PCB. MOSFETs are switching at 16KHz for quiet operation.

SmartDriveDuo10 is smart brush motor driver, support dual channels, 10A continuous current for each channel. Building combat/sumo robot become easy, choose motor+wheel, get a proper battery, connect it to MDDS10, choose a RC controller and you have a robot !! Do check the [User's Manual](#) for details.

With the on board temperature sensor, this smart driver is able to limit the output current stage by stage to prevent itself from overheat and burnt! The peak current is 50A for 5 seconds and it will automatically limit the output current.

Not to forget, to make it RC receiver friendly, we have added 2x3 header pin, with just 2 RC extension cable, the wiring is done, and it takes 2 minutes!

With MDDS10, you can now series up two SLA battery to power your motor as it support up to 35V DC input. And you only require one power input to operate the motor and driver. Don't worry, 3-cell and 6-cell Li-po battery are within the operating voltage :) Hey! It also come with battery low voltage warning feature, what else do you need?

Features:

- Input Voltage (Motor): 7 - 35VDC
- Single power operation
- Dual Channels, means it can drive two brush motor independently, or mixed.
- Operating modes: **RC** (RC servo signal), **Analog**, **PWM**, **simplified** and **packetized UART**.
- Support Signed magnitude and Locked Anti-phase in PWM mode.
- Two manual/test buttons for each channel.

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- Two output indicator LEDs for each channel.
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- Power, Error indicator, RUN status (Left and Right) LEDs
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- On board reset button to restart the MCU after changing operation mode.
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- Temperature feedback for current limit and prevent overheating of MOSFET.
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- Support up to 10A continuous current at room temperature.
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- Support up to 30A peak for 1 second. Current will be limited as temperature raises.
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- Suitable for combat or sumo robot.
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- 16KHz switching frequency for quiet operation.
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- On board switching voltage regulator for higher power efficiency.
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- Battery low voltage monitoring mode.
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- We have tried this driver with single power window motor at 24V, full load without problem.
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NO polarity protection, please double check the power input connection.

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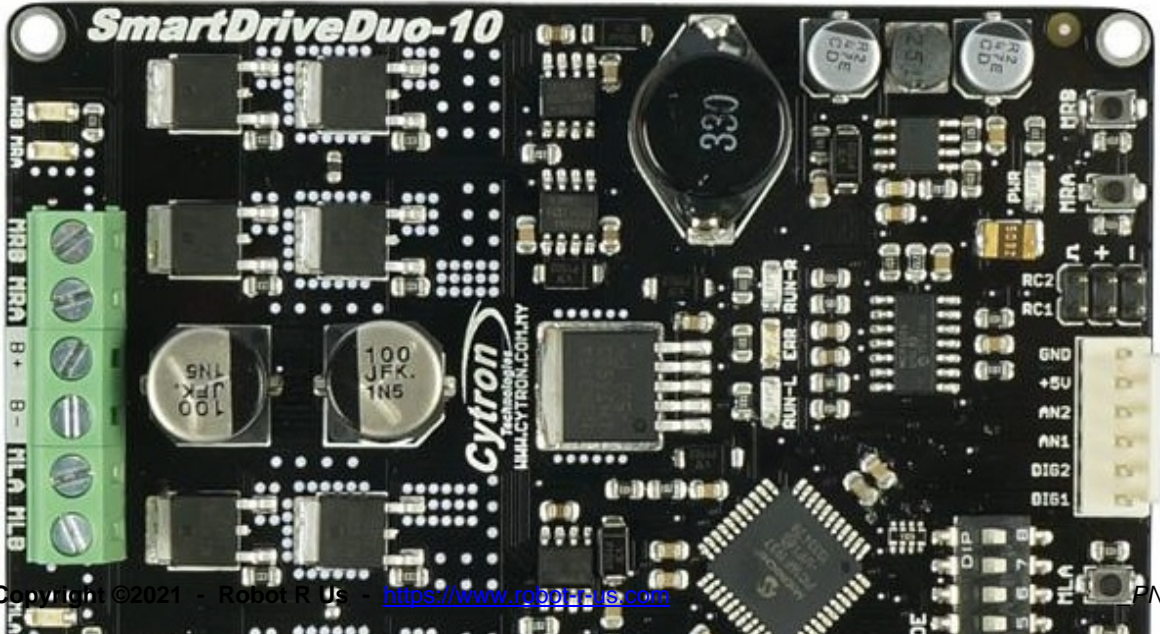
Dimension: 66.8mm x 101.09mm.

Tutorial:

- [Simple Mobile Robot â€“ Plug and play Joystick + MDDS10](#)
- [Arduino + PS2 shield + MDDS10 for mobile robot control](#)
- [Improve MDDS10 Performance With External Fan](#)
- [PWM from CT-UNO+ MDDS10](#)

Video:

https://youtu.be/F4kT_xHDHwA



[Vendor Information](#)

Customer Reviews: There are yet no reviews for this product.
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