



### **PWM** driver click



PID: MIKROE-2272

RS Product Code: <u>136-0817</u>

If you need to control DC motors with loads up to 10A, PWM driver click is the perfect solution, thanks to the Silicon Lab Si8711CC one-channel isolator. It communicates with the target MCU over PWM pin, and runs on a 5V power supply. It can be used in a wide variety of ways, from controlling light intensity to serving as an ON/OFF switch to control DC load circuits.

#### **MOSFET transistor**

The click contains a P-channel DMP3010LK3 MOSFET transistor. When the click is used for PWM control it is not recommended to use it with loads of wattage over 50W because the MOSFET chip can get overheated; however, this does not apply when the click is used as an ON/OFF switch.

#### On board screw terminals

There are two pairs of screw terminals on the PWM driver click — one for the external power supply and one for the DC load.

## **Application**

DC motor speed control, electronic ON/OFF switch for controlling DC load circuits, light intensity control, etc.

## **Key features**

- Si8711CC isolator from Silicon Labs
- Data rates dc to 15 Mbps
- 1 channel diode emulator input
- DMP3010LK3 MOSFET transistor
- Two pairs of screw terminals
- PWM pin interface
- 5V power supply

# **Specification**

Product Type	DC
Applications	DC motor speed control, electronic ON/OFF switch for
	controlling DC load circuits, light intensity control, etc.
On-board modules	Silicon Lab Si8711CC one-channel isolator, P-channel
	DMP3010LK3 MOSFET transistor
Key Features	Two pairs of screw terminals
Key Benefits	PWM pin interface
Interface	PWM
Power Supply	5V
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Weight	35g

### **Downloads**

PWM driver click Examples

PWM driver click Schematic