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# Atomic PWM Base

#### SKU:A114



# Description

**Atomic PWM Base** is a single-channel PWM adjustable DC driver designed to be compatible with the Atom series main controller. It supports DC power input ranging from 12-24V. The output signal duty cycle is controlled through the built-in MOSFET switch. It has a maximum load capacity of 12V@100W and includes a built-in DCDC step-down circuit. This allows the input power supply to drive the load while also providing power to the entire device, making deployment more convenient.

By utilizing the built-in WiFi functionality of the Atom series main controller, the Atomic PWM Base enables remote control capabilities. It is well-suited for applications such as high-power DC motor PWM speed control and industrial heating wire control.

#### Features

- Applicable to Atom Lite/Atom Matrix/AtomS3/AtomS3 Lite
- Single channel low latency PWM signal output
- High power MOSFET, output capacity 12V@100W
- Built-in DC-DC (12V->5V) conversion circuit
- Easy installation, simple operation
- All-in-one design with protective cover

Development platform: Arduino/UIFlow

#### Includes

- 1x Atomic PWM Base
- 1x 3.96-4P terminal

### Applications

- DC Motor Control
- LED brightness Adjustment
- Power Supply Control
- Temperature Control

### Specification

| Resources                | Parameters  |
|--------------------------|-------------|
| Driver Chip              | EG27324     |
| MOSFET                   | FDD8447L    |
| Maximum Output Power     | 100W        |
| Input Voltage Range      | DC 12V-24V  |
| Number of Drive Channels | 1           |
| Power Light              | RED         |
| Product Size             | 24*48*18mm  |
| Package Size             | 136*92*20mm |
| Product Weight           | 9.9g        |
| Package Weight           | 16.5g       |







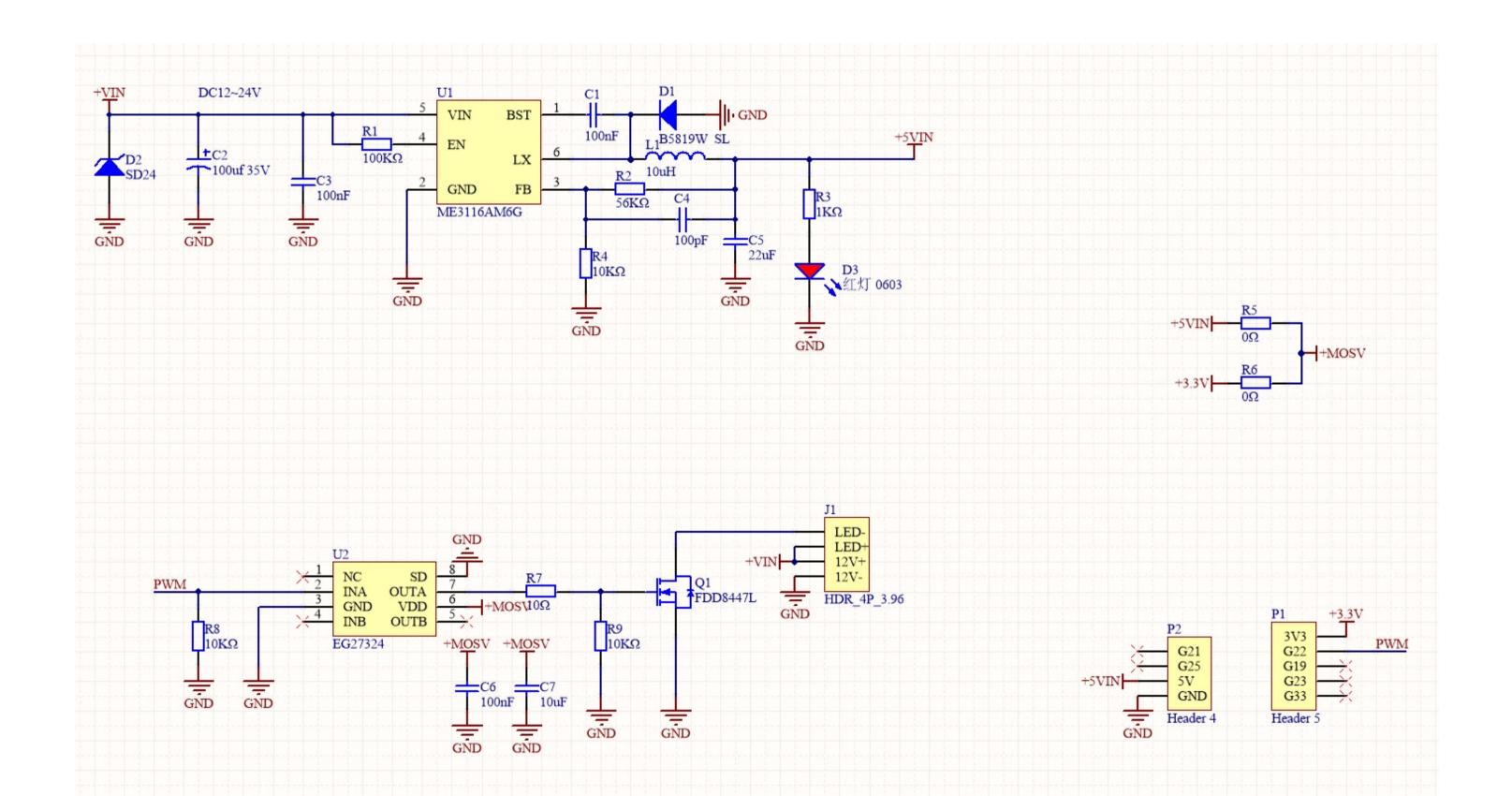
#### Related Link

• FDD8447L

• EG27324



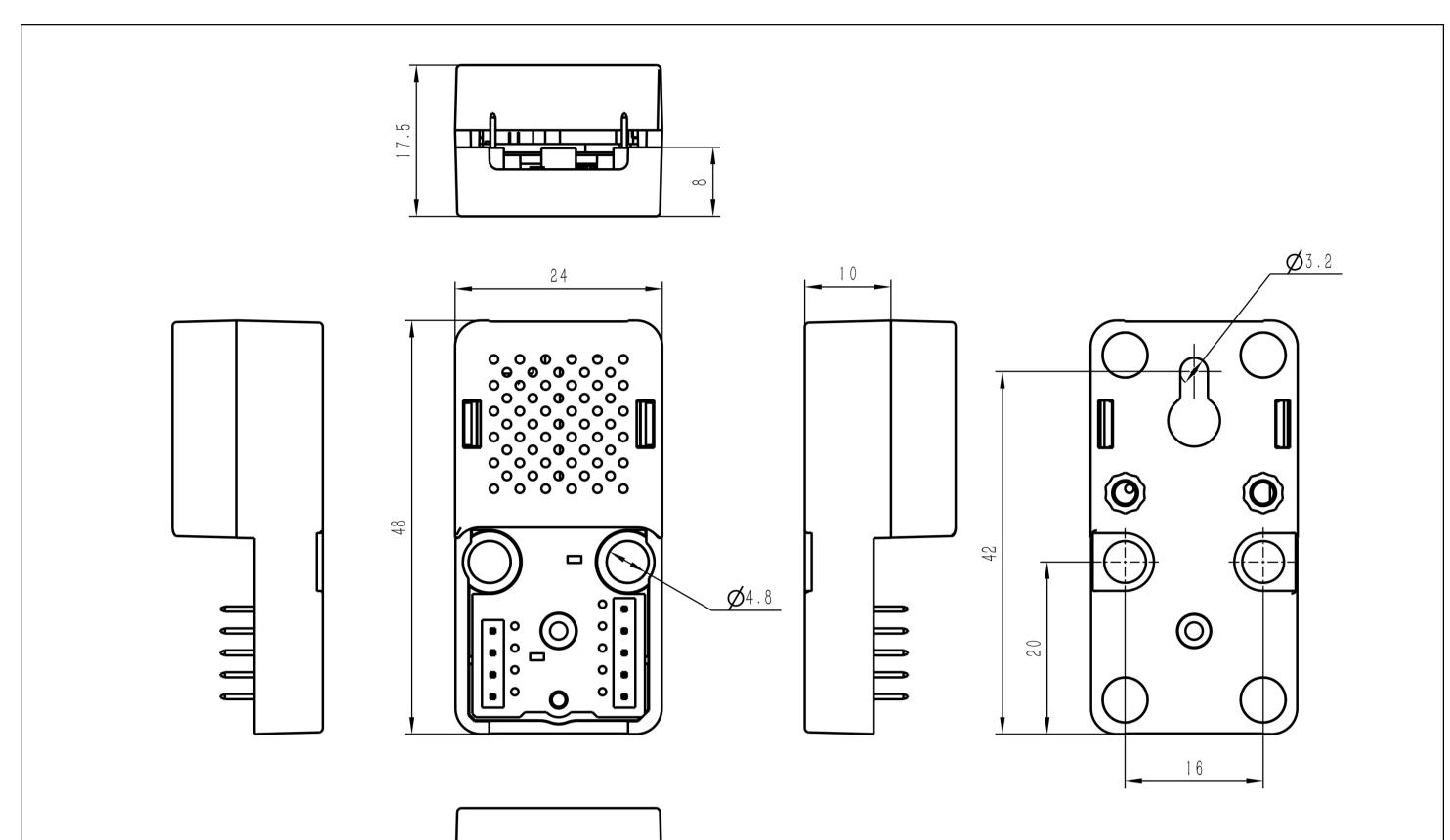
### Schematic

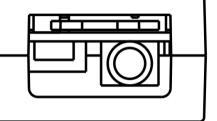


# PinMap

| ATOMIC PWM Base | EG27324 (INA) |
|-----------------|---------------|
| ATOM LITE       | GPI022        |
| ATOM Matrix     | GPI022        |
| ATOMS3 LITE     | GPI05         |
| ATOMS3          | GPI05         |

### Module Size





UNIT:mm

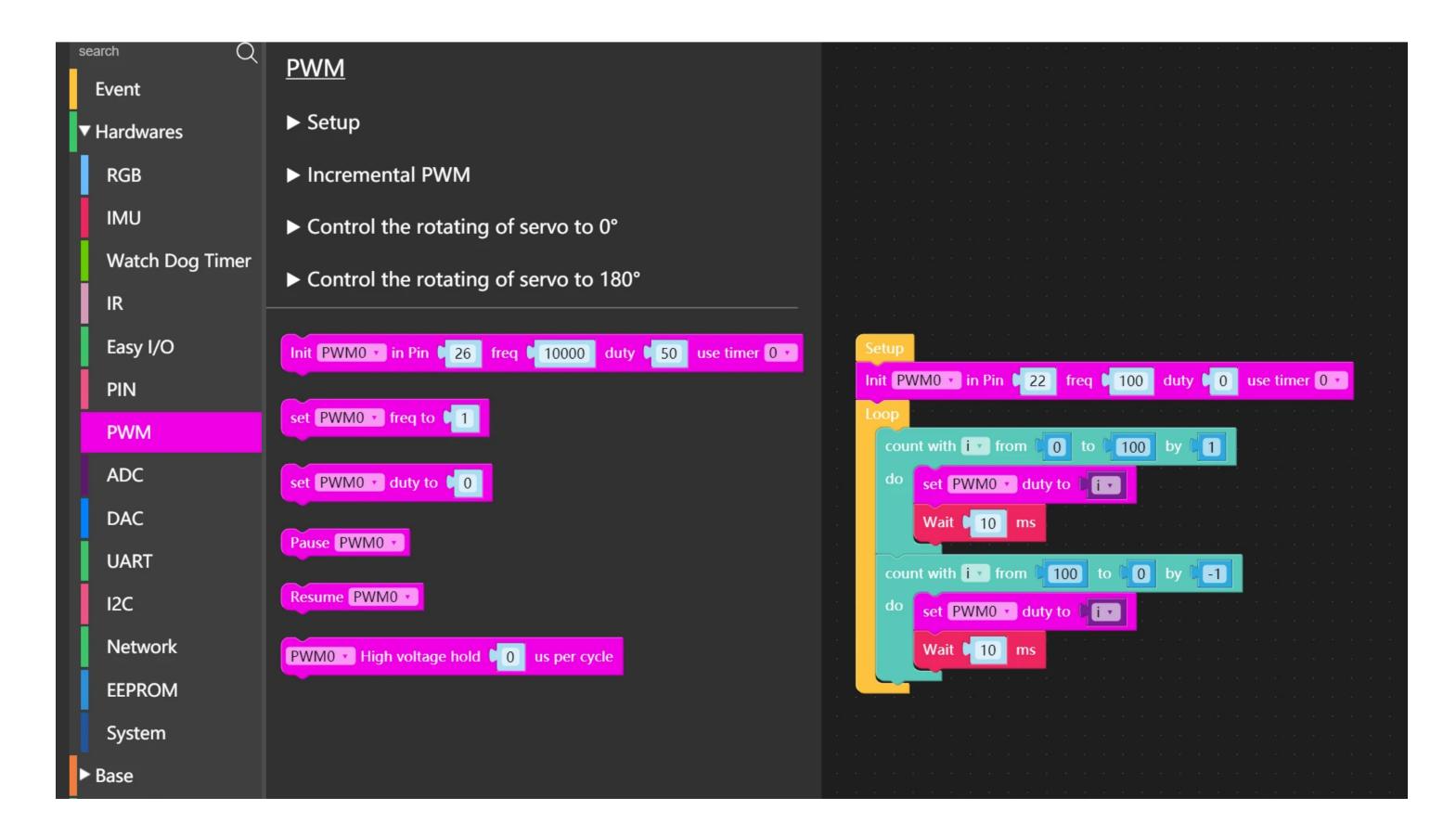
### Examples

#### Arduino

• Atomic PWM Base Output PWM signal example (ATOMS3)

#### UIFlow

#### • View the UIFlow-PWM control documentation



#### Video

• Control the brightness of the light with Atomic PWM Base.

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