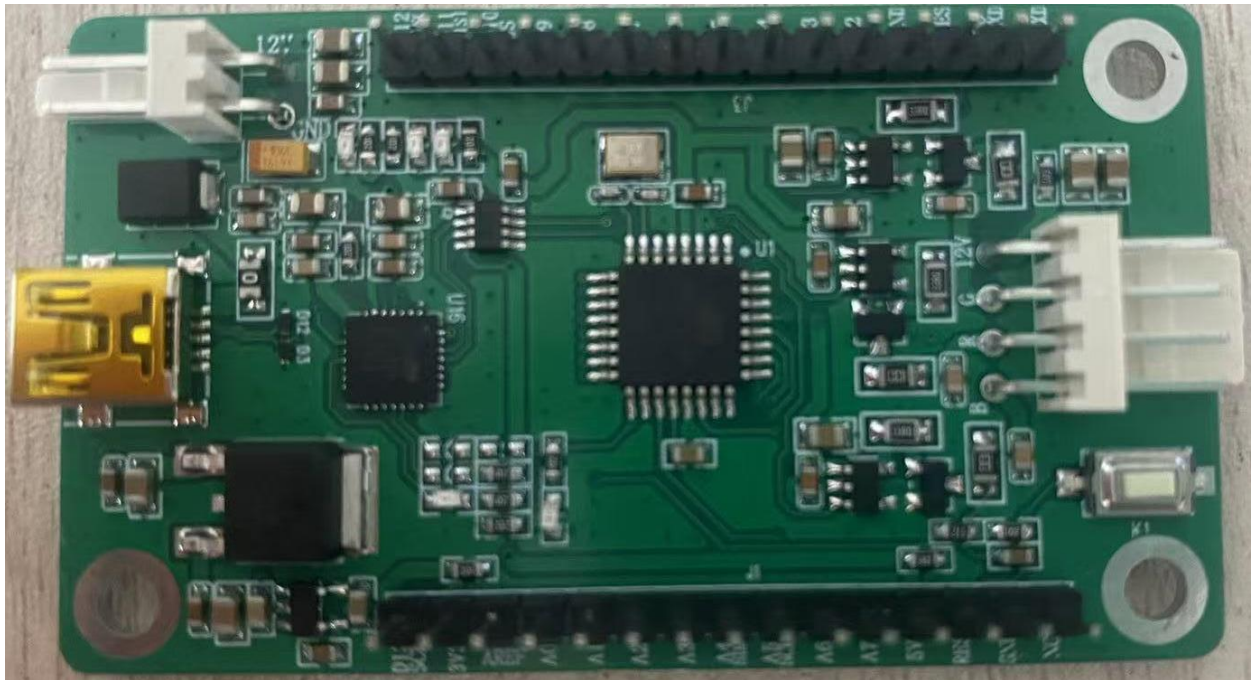


# Tricolor Light Controller Specification



2024/5

# 1.Introduction

The three-color light controller is a development board based on the control ATMEGA328P chip. It has 14 digital input/output pins (6 of these pins can be reused as digital pins as PWM output pins), three of which have been reused as PWM output pins as the RGB interface for the three-color light. 8 analog input pins (6 of which can be reused as digital pins). Support Arduino IDE online serial programming, with its own serial chip, you can download the program directly through USB.

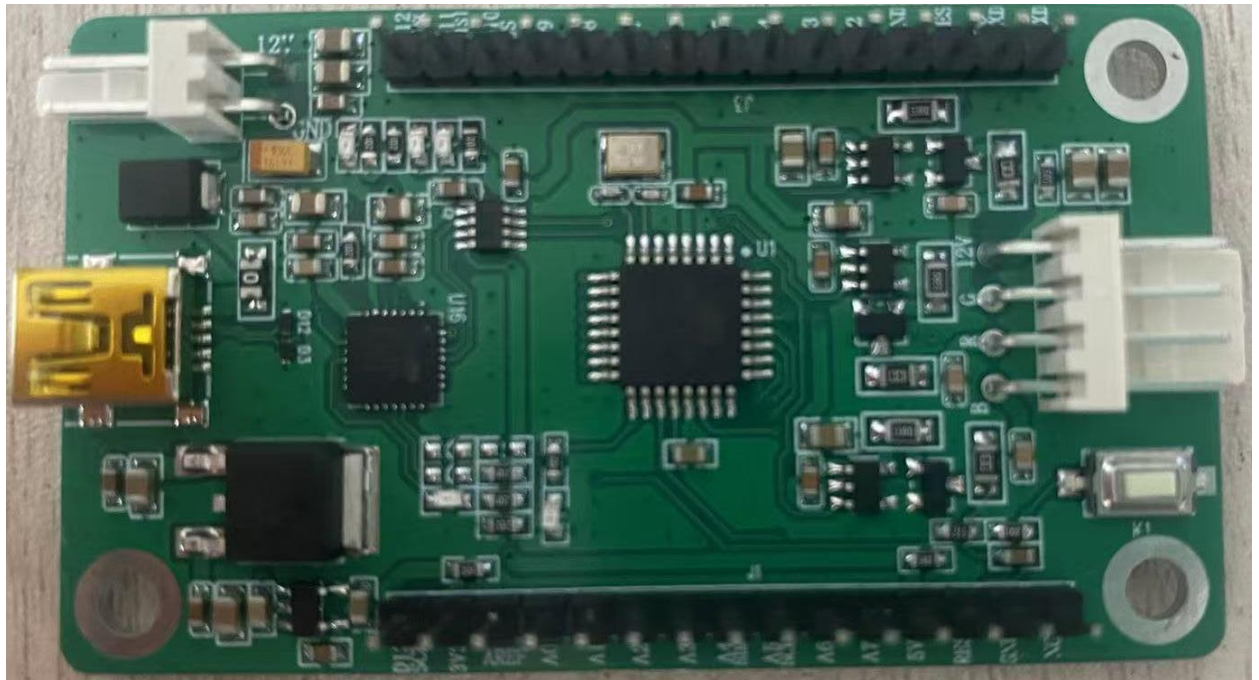
The Arduino ecosystem is rich and powerful, including the easy-to-use development tool Arduino IDE, hundreds of libraries for controlling various sensors and performing tasks, and open forums and online communities that allow developers to start with simple projects and gradually move to more complex applications.

## 2.Positioning

The Arduino three-color light controller is mainly used for the control of 12V three-color lights, which can be used in light display and other fields, and can also be developed as an ordinary development board (all pins on the ATMEGA328P chip have been extracted).

### 3.Appearance

Front view:



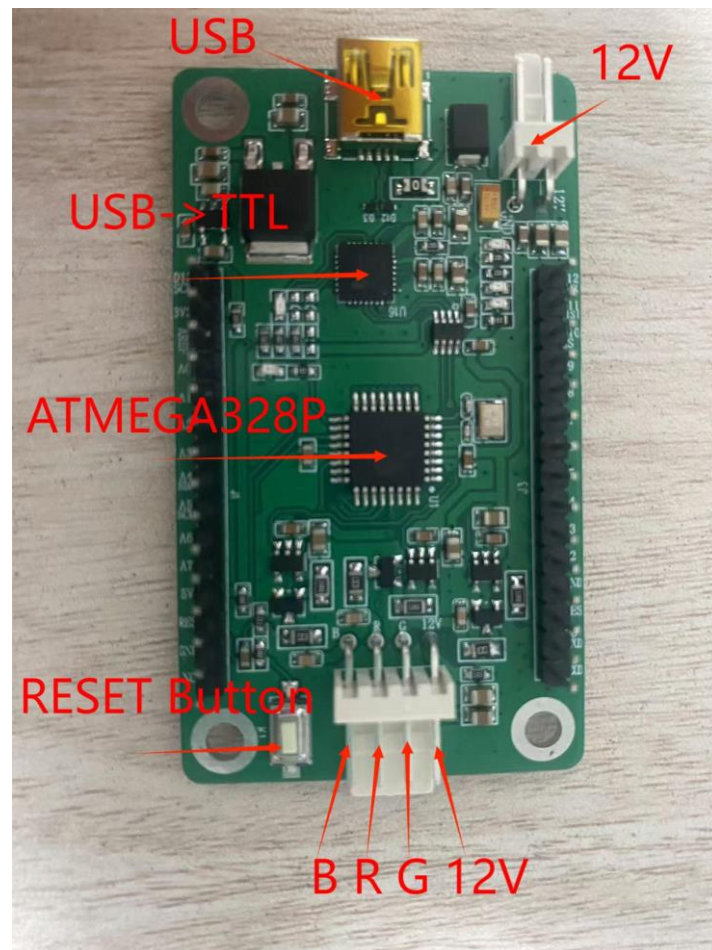
Back view:



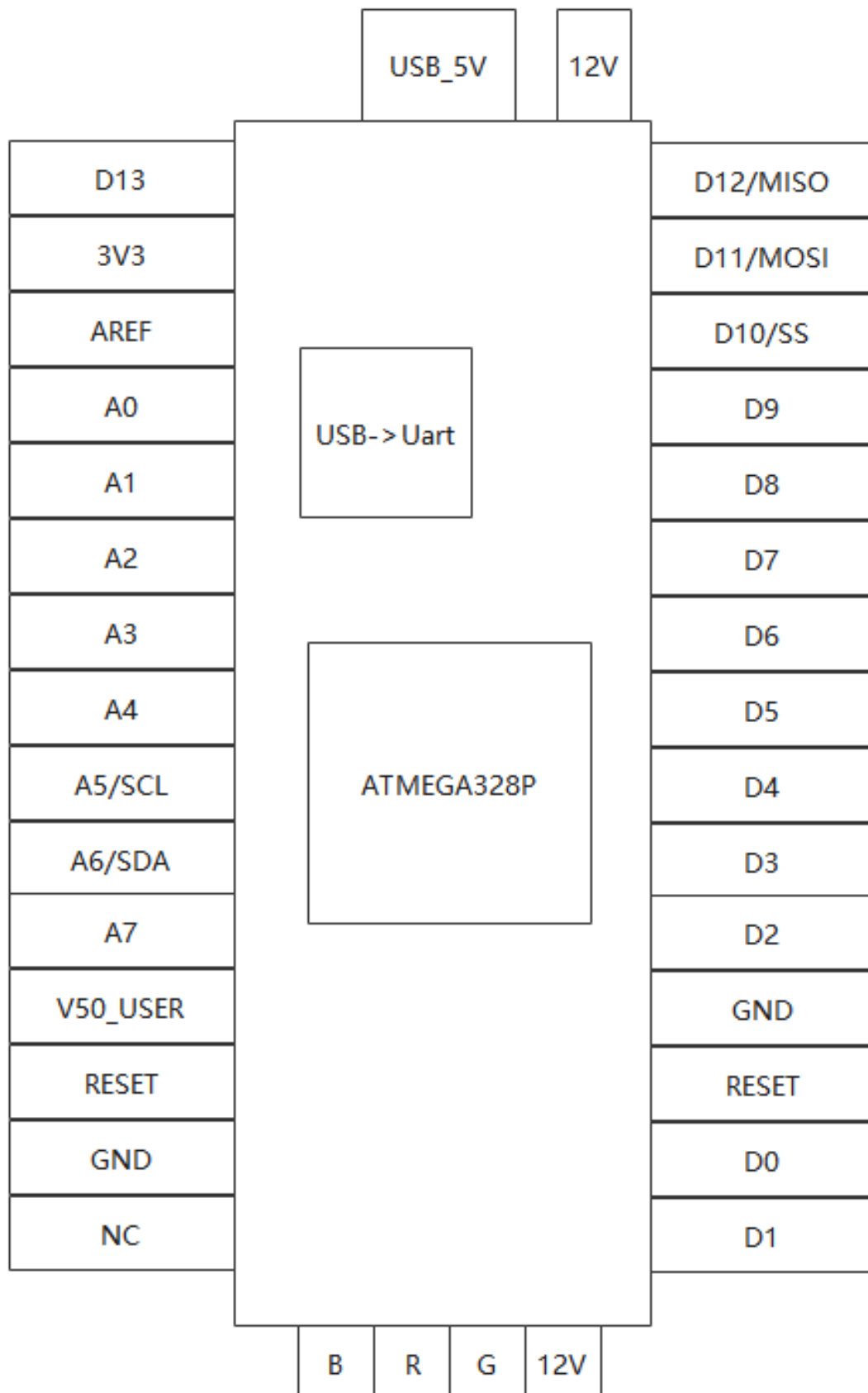
## 4. Parameter characteristics

- Main control chip: ATMEGA328P
- Power supply: 12V (supplies power to the light bar)
- 5V USB power supply (for IC power supply)
- Equipped with USB to serial chip, serial communication/burning program can be carried out directly through USB
- All I/O interfaces are drawn from both sides of the board for secondary development
- The board leads to three color light RGB three PWM interface, can be driven by 12V

## 5. Pinout







The definition of the Light controller pin interface (1)

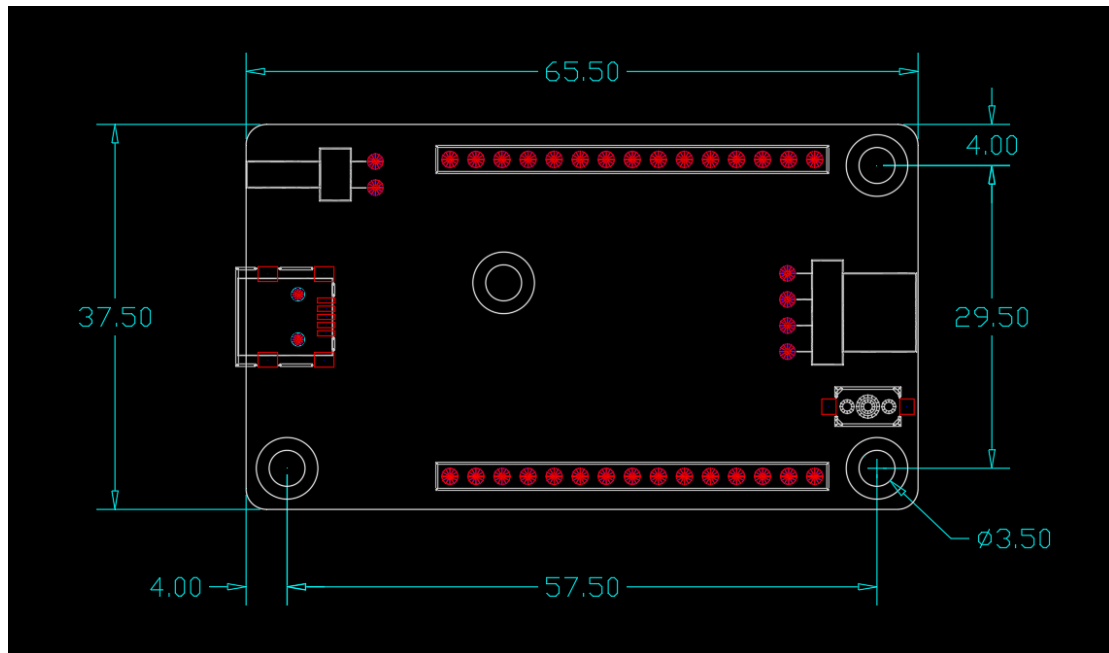
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## 6.Dimensions



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