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SUPERLIGHTINGLED
AHC4 LED Signal Amplifier

# SUPERLIGHTINGLED AHC4 LED Signal Amplifier User Manual

**Contents**

**SUPERLIGHTINGLED AHC4 LED Signal Amplifier**



**Product Usage Instructions**

## Installation

1. Ensure the power supply voltage is within the range of DC 5V to 24V.
2. Connect the SIGNAL, IN, GND, DAT1, DAT2, and VCC terminals to the corresponding components.
3. Refer to the compatible IC types list to ensure compatibility with your LED strip or lighting system.

## Operation

1. Apply the power supply within the specified voltage range.
2. Send signals to the amplifier according to the datasheet of your LED controller.
3. Monitor the output channels to ensure proper functioning.

## Maintenance

Regularly check for any loose connections or signs of damage. Clean the amplifier gently using a dry cloth if needed.

## FAQ

- **Q**: What do I do if the amplifier does not power on?
- **A:** Check the power supply connection and ensure it is within the specified voltage range. Verify that all connections are secure.
- **Q:** Can I use this amplifier with non-compatible IC types?
- **A**: It is recommended to use this amplifier only with the listed compatible IC types for optimal performance.

## Specifications

- Parameter:
- Working voltage: DC5V~24V
- Working temperature: – 20-60°C
- Output:4 channels
- Compatibale IC type: WS2812B,WS2811,5K6812, SK6812-
- RGBW,SM16703,WS2813, WS2815, CS8812, AL2815, WS2801, APA102, SK9822,UCS1903, LPD6803, LPD8806, APA102 Static power consumption: <1W

## Características

Signal amplifier (repealer) receives one-way SPI signal, output signal Symphony 4 control group, multi-group Symphony of dream color striplight changes in effect, and an amplifier used for signal output viaSPI, the theory can be cascaded Countless signal amplifier DC5V~24V wide range of working voltage, but it cannot regulate the output voltage. That means the output voltage of the power supply must be the same as the work voltage of your LED lights. The current through the amplifier is limited, when the current consumed is high, you need to add the power supply of the corresponding voltage.
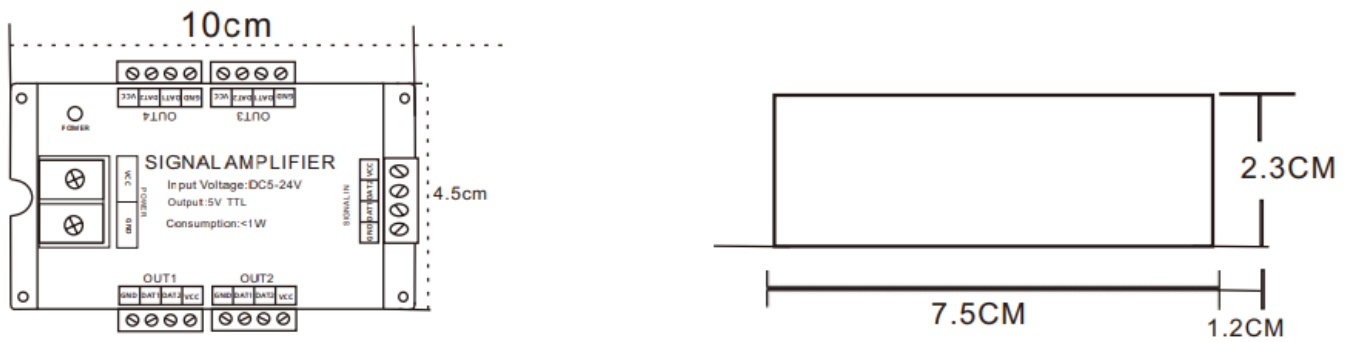
## Connection method
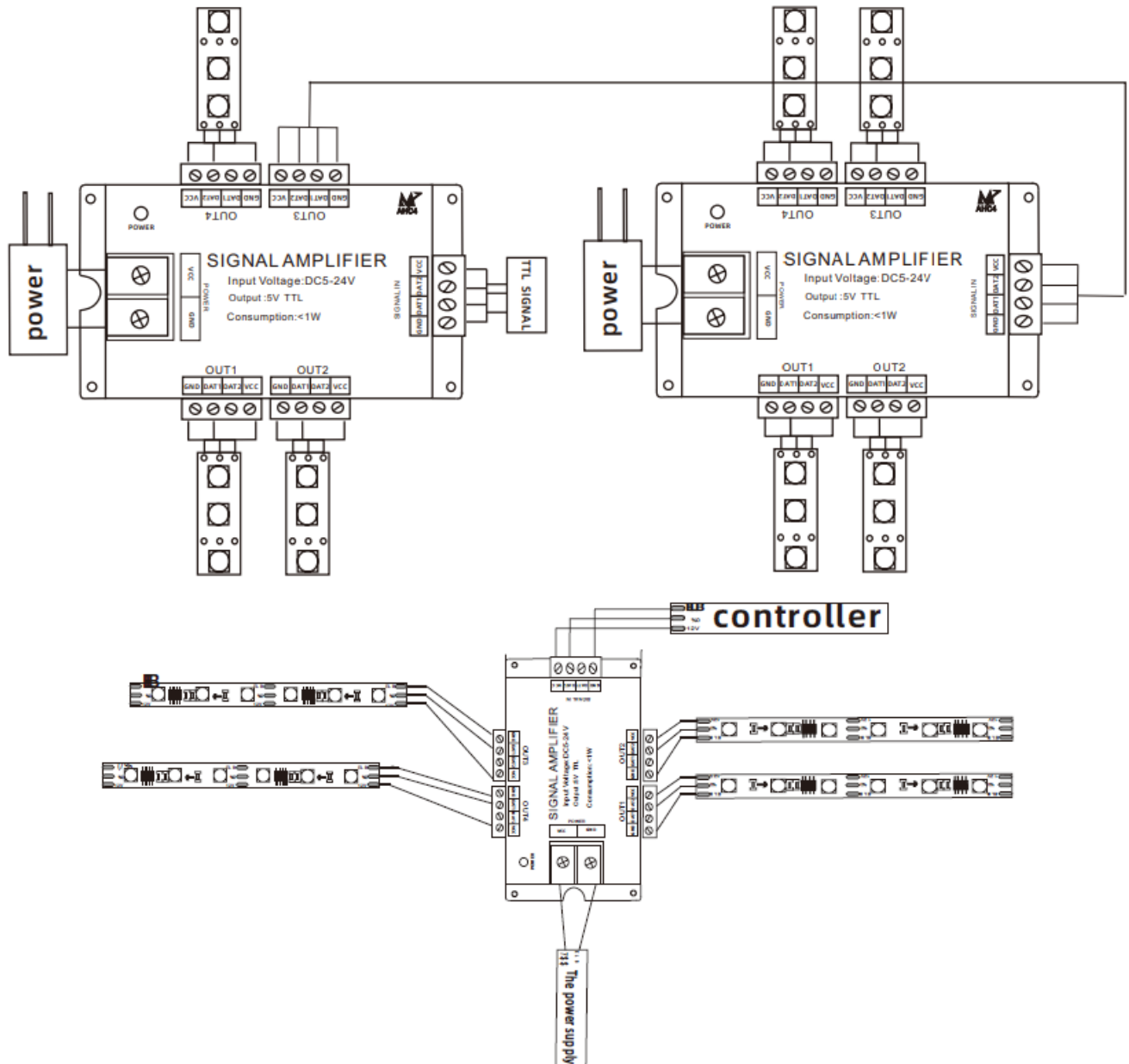


## Precautions

The controller cannot regulate the output voltage at the VCC. That means the output voltage of your power supply must be the same as the work voltage of your LED lights. If your lights need 5V input, please use a 5V power supply, don't use higher than 5V power supply current through the amplifier is limited, when the consumption current is higher, you need to add power supply of the corresponding voltage additionally.

## Documents / Resources
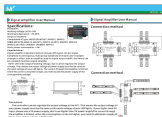


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AHC4, AHC4 LED Signal Amplifier, LED Signal Amplifier, Signal Amplifier, Amplifier

## References

- **User Manual**