

RGBW 5 CHANNEL LED AMPLIFIER

DESCRIPTION:

The RGBW 5-Channel LED Amplifier is a high-performance device designed to extend and synchronize signals from any PWM-based LED controller. Built with high-current MOSFET technology, it delivers stable, high-power output for large-scale LED installations. With optoelectronic isolation and high-speed transmission up to 10 Mbps, it ensures precise signal replication across multiple amplifiers, enabling wide-area, synchronized lighting control for both residential and commercial applications.



FEATURES:

- Compatible with all PWM-type LED controllers on the market
- Outputs the controller signal completely and synchronously for reliable operation
- Built with high-current MOSFET components for strong, stable output power
- Supports high-speed optical coupling with a transmission rate of up to 10 Mbps
- Provides optoelectronic isolation between input and output for safety and signal integrity
- Scalable design allows multiple amplifiers to be connected to expand LED load capacity



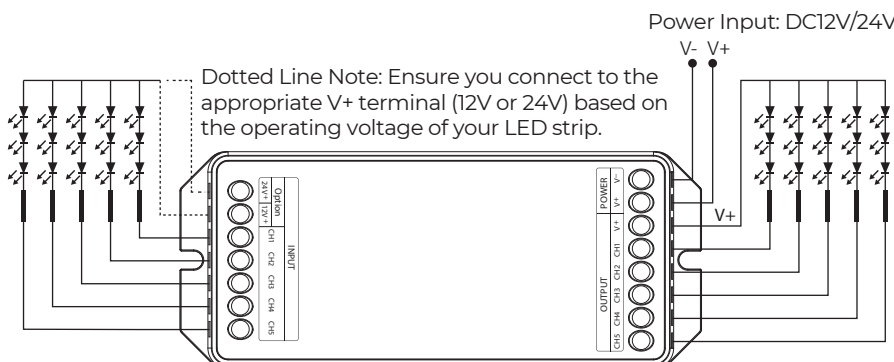
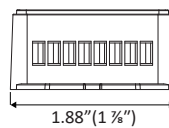
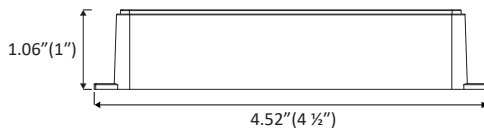
APPLICATIONS:

- Large-scale architectural lighting installations
- RGBW LED strip and fixture extensions
- Commercial and residential color-changing lighting systems
- Synchronization of LED signals across long distances or multiple zones

TECHNICAL SPECIFICATIONS:

Input Voltage	DC 12V / DC 24V
Maximum Total Output	15 Amps
Switching Rate	10 Mbps
Working Temperature	-4°F to 140°F
Connection Type	Common Anode

DIMENSIONS:



Attention:

1. The connected LED strip must operate at either DC 12V or DC 24V.
2. Input and output voltage levels must match.

ATTENTION:

1. Ensure the input voltage of the constant voltage power supply matches the controller's rated voltage. Also, verify correct polarity (anode and cathode) to prevent damage to the controller.
2. Do not connect or disconnect wires while the power is on. Power should only be turned on after all connections are verified and no short circuits are present.
3. Do not attempt to disassemble the lighting fixtures unless you are a qualified professional.
4. Avoid using the controller in areas with large metal surfaces or strong electromagnetic interference, as these may significantly reduce the remote control range.

COMPATIBLE PRODUCTS (SOLD SEPARATELY):



4 Zone RGB+CCT Smart Panel
SKU: MILI-REM-RGBWW-WALL-4Z



RGB+CCT 8 Zone Touch Panel Wall Remote
SKU: MILI-REM-RGBWW-WALL-8Z



ORA 3-in-1 LED Controller
SKU: MILI-CONT-3IN1-RGBXX



2-in-1 LED Strip Light Controller
SKU: MILI-CONT-2IN1-CCT-DIM