

2-IN-1 LED STRIP CONTROLLER

DESCRIPTION:

The ORA 2-in-1 LED Strip Controller provides flexible 2.4 GHz RF control for single-color and tunable white LED strip lighting. Adjust brightness to create the desired atmosphere, with additional color temperature control for tunable white strips. Single-button output mode selection allows one controller to support either lighting configuration.

The controller is compatible with ORA 2.4 GHz remote controls and supports PUSH switch operation for convenient on/off control and smooth dimming. When paired with a compatible ORA 2.4 GHz gateway, it also supports smartphone app control and compatible third-party voice control.



FEATURES:

- Two selectable output modes: Single Color and Tunable White
- Single-button output mode selection
- Compatible with ORA 2.4 GHz remote controls
- Adjustable brightness in both output modes
- Adjustable color temperature in tunable white mode
- 2.4 GHz RF wireless communication
- Remote control range of up to 98.4 ft
- PUSH switch support for on/off control and stepless dimming
- Smartphone app control with a compatible ORA 2.4 GHz gateway
- Compatible third-party voice control through the gateway
- Low-power wireless operation with interference resistance
- Automatic signal retransmission between controllers linked to the same remote

APPLICATIONS:

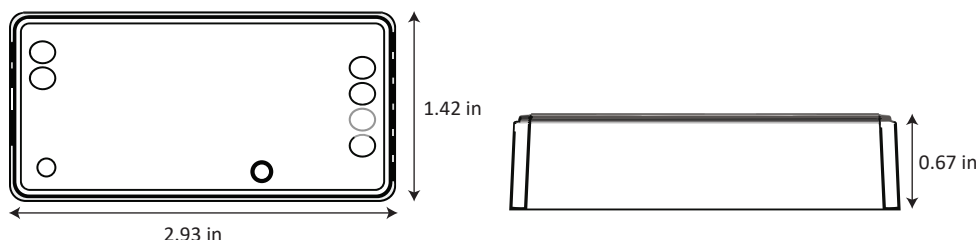
- Residential accent and cove lighting
- Under-cabinet and shelf lighting
- Retail displays and showcases
- Hotel and guest room lighting
- Office and commercial accent lighting
- Smart home LED strip lighting with a compatible gateway



TECHNICAL SPECIFICATIONS:

Input Voltage	12-24 VDC
Output Current	12 A per channel
Maximum Total Output Current	12 A across all channels
Output Modes	Single Color and Tunable White
Output Mode Selection	SET button
Wireless Frequency	2.4 GHz RF
Direct Remote Control Range	Up to 98.4 ft
Output Connection	Common anode
Operating Temperature	14°F to 104°F
Compatible Controls	ORA 2.4 GHz series remote controls
PUSH Control	On/off and brightness adjustment
App and Voice Control	Requires an ORA 2.4 GHz gateway

DIMENSIONS:



OUTPUT MODE SETUP:

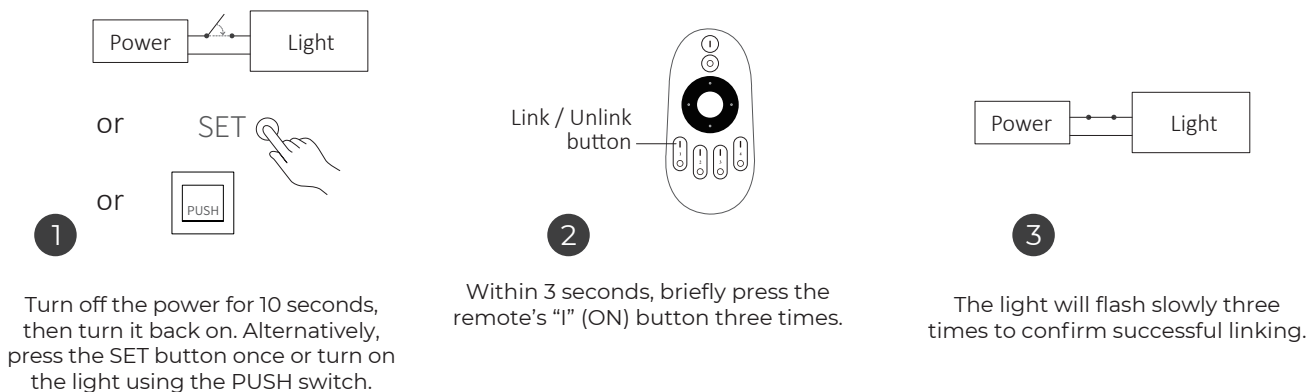
Select the appropriate output mode for the connected LED strip.

Press the SET button repeatedly to switch between output modes. The controller will automatically exit setup mode after 3 seconds of inactivity.

Confirm the selected output mode using the indicator color:

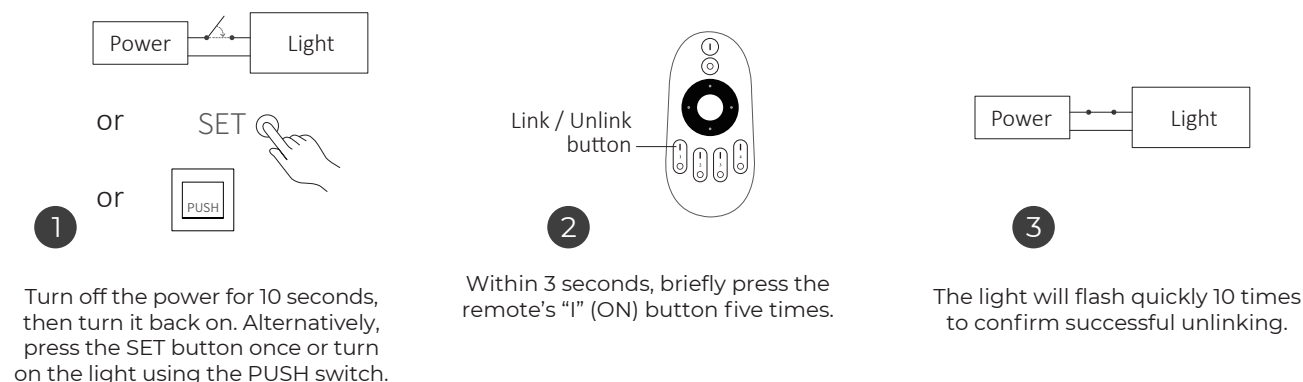
Indicator Color	Output Mode
Red	Single Color
Green	Tunable White (Dual White)

LINKING CODE INSTRUCTIONS:



Note: If the light does not flash slowly three times, linking was unsuccessful. Repeat the steps above. A light that is already linked cannot be linked again.

UNLINKING CODE INSTRUCTIONS:



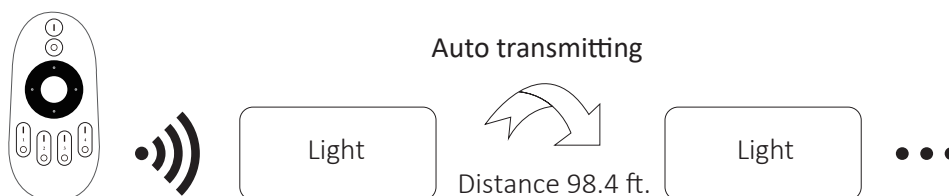
Note: If the light does not flash quickly 10 times, unlinking was unsuccessful. Repeat the steps above. A light that is not linked does not need to be unlinked.

AUTOMATIC SIGNAL TRANSMISSION:

2.4 GHz RF remote control

Each controller can automatically relay the remote-control signal to another controller within 98.4 ft. The signal can continue through additional controllers to extend the overall control range.

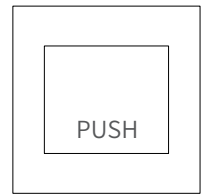
Note: All controllers must be linked to the same remote control, with no more than 98.4 ft between consecutive controllers.



PUSH DIMMING:

Short Press: Briefly press the PUSH switch to turn the light on or off.

Long Press: Press and hold the PUSH switch for smooth, stepless brightness adjustment. Release, then press and hold again to reverse the dimming direction.



PWM FREQUENCY SELECTION:

Remote control operation only

Switch to High-Frequency Mode

Within 3 seconds, press the “OFF” button once, followed by the “ON” button five times. The LED light will flash quickly twice to confirm successful activation.

Switch to Low-Frequency Mode

Within 3 seconds, press the “ON” button once, followed by the “OFF” button five times. The LED light will flash slowly twice to confirm successful activation.

DO NOT DISTURB MODE:

Enabled by default | Remote control operation only

Do Not Disturb mode is designed for areas with frequent power interruptions. It controls how the light responds when power is restored.

Activate Do Not Disturb Mode

Within 3 seconds, press the “OFF” button three times, followed by the “ON” button three times. The LED light will flash quickly four times to confirm activation.

When Do Not Disturb mode is enabled:

If the light was turned off using the remote or app, it will remain off when power is restored. Turn the power off and on twice, or use the remote or app to turn it on.

If the light was on before the power interruption, it will turn on when power is restored after one power cycle.

Deactivate Do Not Disturb Mode

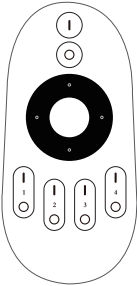
Within 3 seconds, press the “ON” button three times, followed by the “OFF” button three times. The LED light will flash slowly four times to confirm deactivation.

When Do Not Disturb mode is disabled, the light will automatically turn on whenever power is restored.

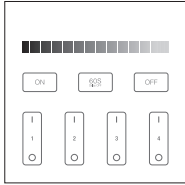
SAFETY PRECAUTIONS:

1. Disconnect the power supply before installation.
2. Ensure the input voltage matches the controller’s rated voltage.
3. Do not disassemble the controller. Servicing should be performed only by a qualified professional to prevent damage.
4. Avoid installing the controller near large metal surfaces or sources of strong electromagnetic interference, as these may reduce the wireless control range.

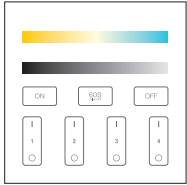
COMPATIBLE ORA CONTROLS AND GATEWAY (SOLD SEPARATELY):



CCT 4 Zone Remote
SKU: MILI-REM-CB



Single Color Dimmer – 4 Zone Touch Panel Wall Remote
SKU: MILI-REM-DIM-4Z (Panel)



CCT 4 Zone Touch Panel Wall Remote
SKU: MILI-REM-CCT-4Z(Panel)



G3 LED WiFi Gateway for 2.4GHz RF Lighting Control
SKU: MILI-WIFI-BRIDGE-G3

Notes: