

Project Name: _____ Type: _____ Quantity: _____

3-IN-1 LED STRIP CONTROLLER

DESCRIPTION:

The ORA 3-in-1 LED Strip Controller provides reliable 2.4 GHz RF control for RGB, RGBW, and RGB+CCT LED strip lighting. Its output mode can be changed using a single button, allowing one controller to support multiple lighting configurations.

The controller is compatible with ORA 2.4 GHz remote controls. When paired with an ORA 2.4 GHz gateway, it also supports smartphone app control, scheduling, group control, music synchronization, and compatible third-party voice control.



FEATURES:

- Three selectable output modes: RGB, RGBW, and RGB+CCT
- Single-button output mode selection
- Compatible with ORA 2.4 GHz remote controls
- Up to 16 million color selections
- Adjustable brightness, saturation, and color temperature
- 2.4 GHz RF wireless communication
- Remote control range of up to 98.4 ft
- Automatic signal transmission and lighting synchronization
- Smartphone app control with an optional ORA 2.4 GHz gateway
- Scheduling, group control, and music synchronization through the gateway
- Compatible third-party voice control with an optional gateway
- Common-anode output connection
- Low-power wireless operation with strong interference resistance

APPLICATIONS:

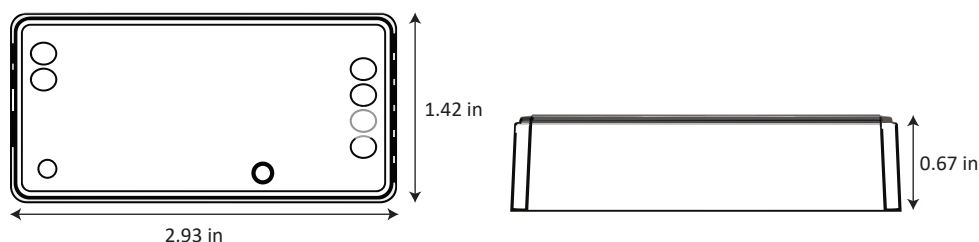
- Residential accent and cove lighting
- Under-cabinet and shelf lighting
- Retail displays and showcases
- Hospitality and entertainment spaces
- Restaurants, lounges, and bars
- Color-changing and tunable-white LED strip installations



TECHNICAL SPECIFICATIONS:

Input Voltage	12-24 VDC
Output Current	6 A per channel
Maximum Total Output	12 A
Output Modes	RGB, RGBW, and RGB+CCT
Output Mode Selection	SET button
Wireless Frequency	2.4 GHz RF
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
App and Voice Control	Requires an ORA 2.4 GHz gateway

DIMENSIONS:



OUTPUT MODE SETUP:

Select the appropriate output mode based on the connected LED lighting.

Press the SET button repeatedly to switch between output modes. The controller will automatically exit setup mode if no operation is detected for 3 seconds.

Confirm the selected output mode using the indicator color:

Indicator Color	Output Mode
Red	RGB
Green	RGBW
Blue	RGB+CCT

LINKING CODE INSTRUCTIONS:



Note: If the light does not flash slowly, linking was unsuccessful. Repeat the steps above. A light that is already linked must be unlinked before linking it again.

UNLINKING CODE INSTRUCTIONS:



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

AUTOMATIC SIGNAL TRANSMISSION AND SYNCHRONIZATION:

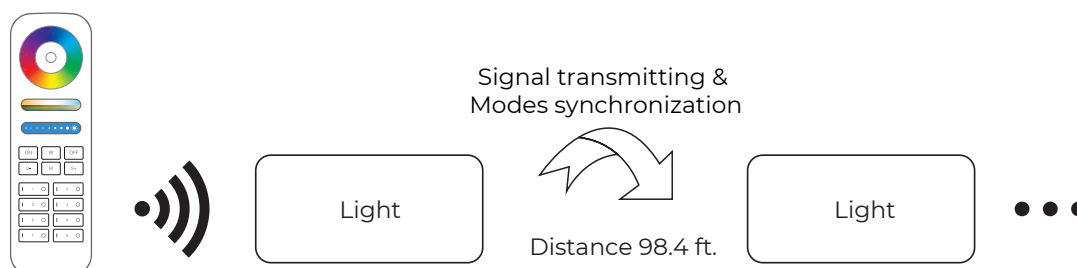
Remote control operation only

Automatic Signal Transmission

Each controller can relay the remote-control signal to another controller within 98.4 ft. When controllers are installed within 98.4 ft of one another, the signal can continue across an extended control network.

Dynamic Mode Synchronization

Multiple controllers can synchronize their lighting effects when they are linked to the same remote control, set to the same dynamic mode, and located within 98.4 ft of one another.



DYNAMIC MODE TABLE SELECTION:

Remote control operation only

Dynamic Mode Table 1 (Default)

While the light is in static mode, quickly press the S+ button five times. The light will flash blue three times slowly to confirm that Dynamic Mode Table 1 has been selected.

Dynamic Mode Table 2

While the light is in static mode, quickly press the S- button five times. The light will flash yellow three times slowly to confirm that Dynamic Mode Table 2 has been selected.

Number	Dynamic Mode	Brightness / Saturation / Speed
1	Mardi Gras	Adjustable
2	Automatic color change	
3	Sam	
4	Gemstone	
5	Twilight	
6	American	
7	Fat Tuesday	
8	Party	
9	Slow Color Splash	

Number	Dynamic Mode	Brightness / Saturation / Speed
1	Seven colors gradual change	Adjustable
2	White light gradual change	
3	RGB gradual change	
4	Seven colors jump to change	
5	Jump to change randomly	
6	Red light gradual change + Flash 3 times	
7	Green light gradual change + Flash 3 times	
8	Blue light gradual change + Flash 3 times	
9	White light gradual change + Flash 3 times	

PWM FREQUENCY SELECTION:

Remote control operation only

Switch to High Frequency

Within 3 seconds, press the OFF button once, followed by the ON button five times. The LED light will flash quickly twice to confirm that high-frequency mode has been activated.

Switch to Low Frequency

Within 3 seconds, press the ON button once, followed by the OFF button five times. The LED light will flash slowly twice to confirm that low-frequency mode has been activated.

SAFETY PRECAUTIONS:

1. Disconnect the power supply before installation.
2. Verify that the supply voltage matches the controller's rated input 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.

DO NOT DISTURB MODE:

Enabled by default

Do Not Disturb mode is designed for areas that experience frequent power interruptions. It helps prevent the light from turning on unexpectedly 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:

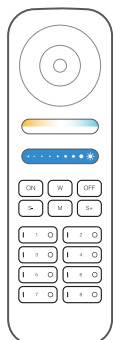
1. If the light was turned off using the app or remote control, it will remain off when power is restored. To turn it on, cycle the power twice or use the app or remote control.
2. If the light was on before the power interruption, it will turn on when power is restored.

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.

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

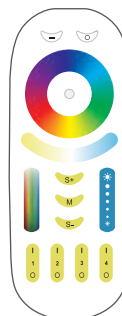
COMPATIBLE WITH 2.4 GHZ RF REMOTE CONTROLS (SOLD SEPARATELY):



RGB+CCT 8 Zone Remote
SKU: MILI-REM-RGBWW-8Z



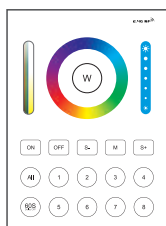
ORA RGB+CCT 100 Zone Remote
SKU: MILI-REM-RGBCCT-100Z



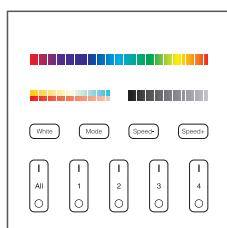
RGB+CCT 4 Zone Remote
SKU: MILI-REM-RGBWW



RGBW 4 Zone Remote
SKU: MILI-REM-RGBW



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



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



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

Notes: