LGIDTECH FUT037W+

LGIDTECH FUT037W+ 3-in-1 LED Strip Light Controller User Manual

Model: FUT037W+ | Brand: LGIDTECH

1. Product Overview

The LGIDTECH FUT037W+ is a versatile 3-in-1 LED Strip Light Controller designed for seamless integration with various LED strip types. It supports RGB, RGBW, and RGB+CCT LED strips, offering comprehensive control over color, brightness, and mode. This controller features direct smartphone APP control via "Tuya Smart" without the need for an additional gateway, and is compatible with popular voice control systems like Amazon Echo Alexa and Google Home. It also supports control via Miboxer/Milight remote controllers (sold separately).

Key Features:

- Direct Smartphone APP Control: No extra WiFi controller hub or gateway needed. Compatible with "Tuya Smart" app.
- Voice Control Compatibility: Works with Amazon Echo Alexa and Google Home.
- Versatile LED Strip Support: Compatible with RGB (4 wires), RGBW (5 wires), and RGB+CCT (6 wires) LED strip lights.
- High Output Capacity: Max Output 12A, supporting up to 144W for DC 12V LED strips and 288W for DC 24V LED strips.
- Remote Control Available: Compatible with various Miboxer/Milight remote controllers (e.g., FUT096, FUT092, FUT089, FUT100, B3, B4, B0, B8, S2-W). Remotes are sold separately.
- Memory Function: Retains the last color, brightness, and mode settings after power off.

2. Safety Information

- Ensure the input voltage (DC12~24V) matches your LED strip and power supply specifications. Incorrect voltage can damage the device and LED strips.
- Do not exceed the maximum total output of 12A. Overloading can lead to overheating and device failure.
- This device is designed for indoor use only. It is not water resistant. Avoid exposure to moisture or wet

environments.

- Disconnect power before making any wiring connections or performing maintenance.
- Keep the device away from direct sunlight, high temperatures, and corrosive substances.
- Installation should be performed by a qualified professional if you are unsure about electrical wiring.

3. Package Contents

Please check the package contents upon opening. If any items are missing or damaged, contact your retailer.

- 1 x LGIDTECH FUT037W+ 3-in-1 LED Strip Light Controller
- *Note: Remote control is not included and must be purchased separately.*

4. Product Diagram and Specifications

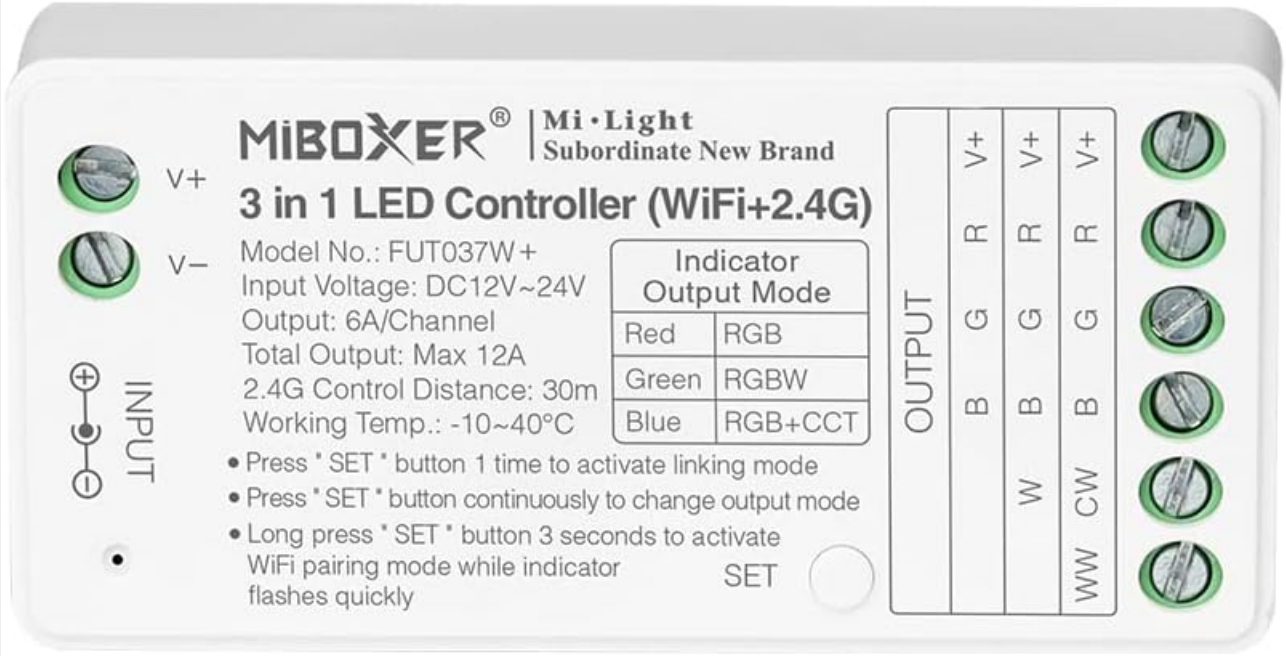


Image: Front view of the LGIDTECH FUT037W+ controller, showing input/output terminals and the SET button.



Product Name: 3 in 1 LED Strip Controller (WiFi+2.4G)
Model Number: FUT037W+
Sold by brand: LGIDTECH
Input Voltage: DC12~24V
Output: 6A/Channel
Total Output: Max 12A
Communication Protocol: WiFi+2.4GHz
2.4G RF Control Distance: 30meters=98ft
Working Temperature: -10~40°C
WiFi Standard: IEEE 802.11b/g/n 2.4GHz
Bluetooth Protocol: Bluetooth 4.2

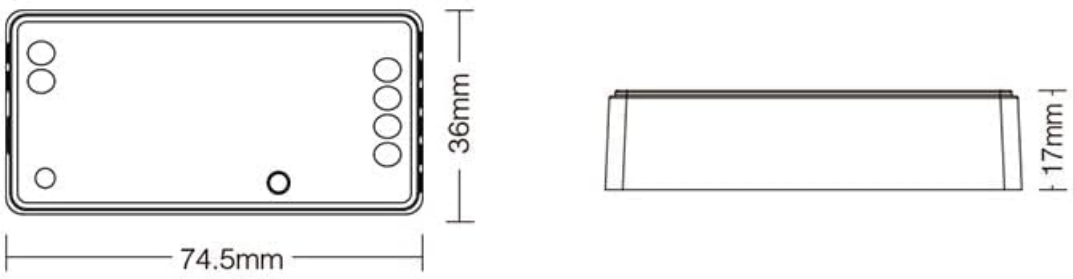


Image: Diagram illustrating the compact size of the FUT037W+ controller (74.5mm x 36mm x 17mm) and its triple function capability (RGB, RGBW, RGB+CCT).

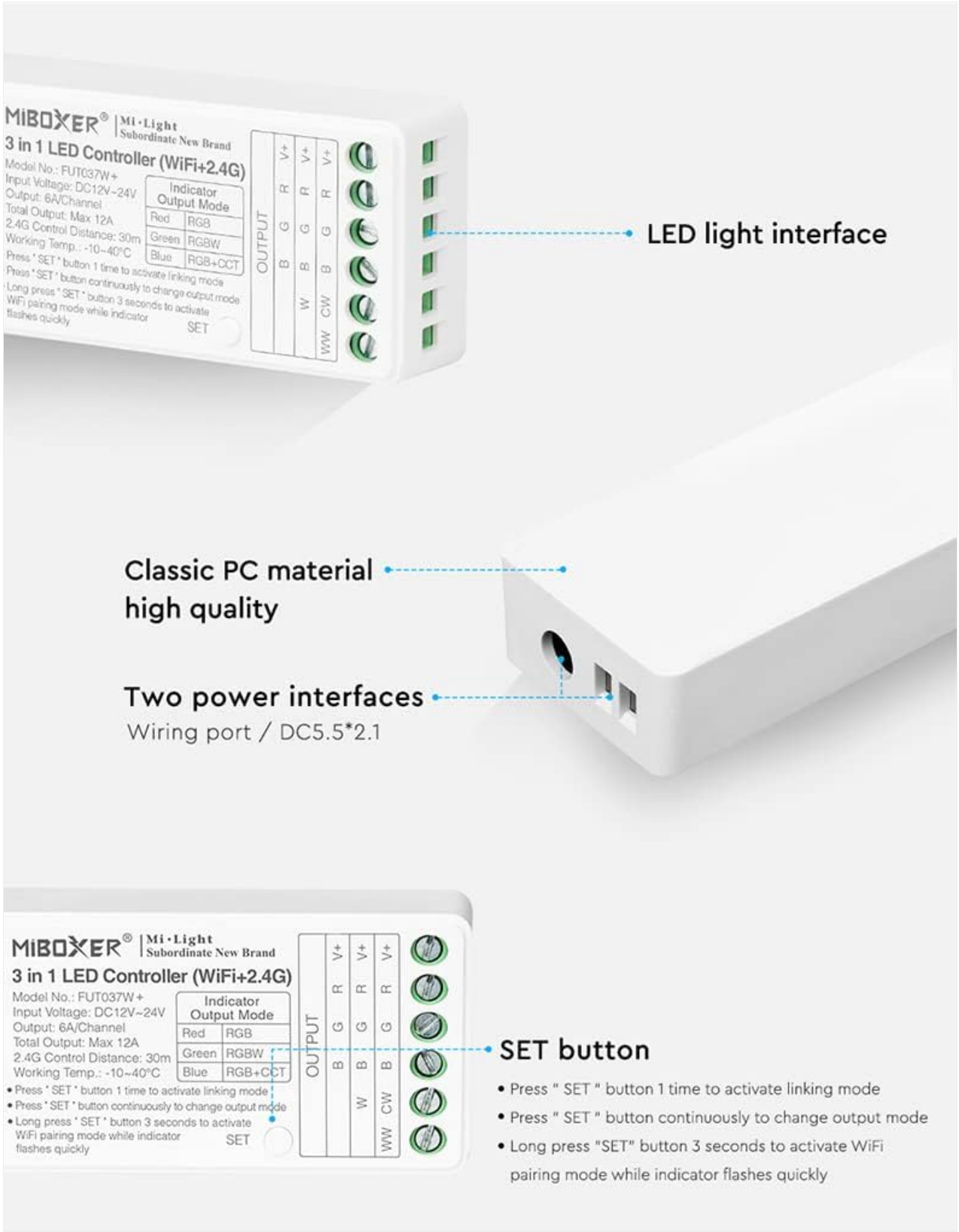


Image: Detailed view of the controller's LED light interface, power interfaces (wiring port / DC5.5*2.1), and the SET button with its functions.

Technical Specifications:

Specification	Value
Model Number	FUT037W+
Input Voltage	DC12~24V
Output Current	6A/Channel

Total Output	Max 12A
Max Load (12V)	144W
Max Load (24V)	288W
Communication Protocol	WiFi 2.4GHz, Bluetooth 4.2
2.4G RF Control Distance	30 meters (98 feet)
Working Temperature	-10~40°C
Dimensions (L x W x H)	3 x 1.42 x 0.67 inches (76.2 x 36.07 x 17.02 mm)
Item Weight	1.48 ounces (42 grams)
Indoor/Outdoor Usage	Indoor
Water Resistance Level	Not Water Resistant

5. Setup and Installation

5.1 Wiring Diagram

Connect the LED strip controller to your LED strip and power supply according to the diagram below. Ensure correct polarity (V+ and V-) and match the output channels (R, G, B, W, CW, WW) to your specific LED strip type (RGB, RGBW, or RGB+CCT).

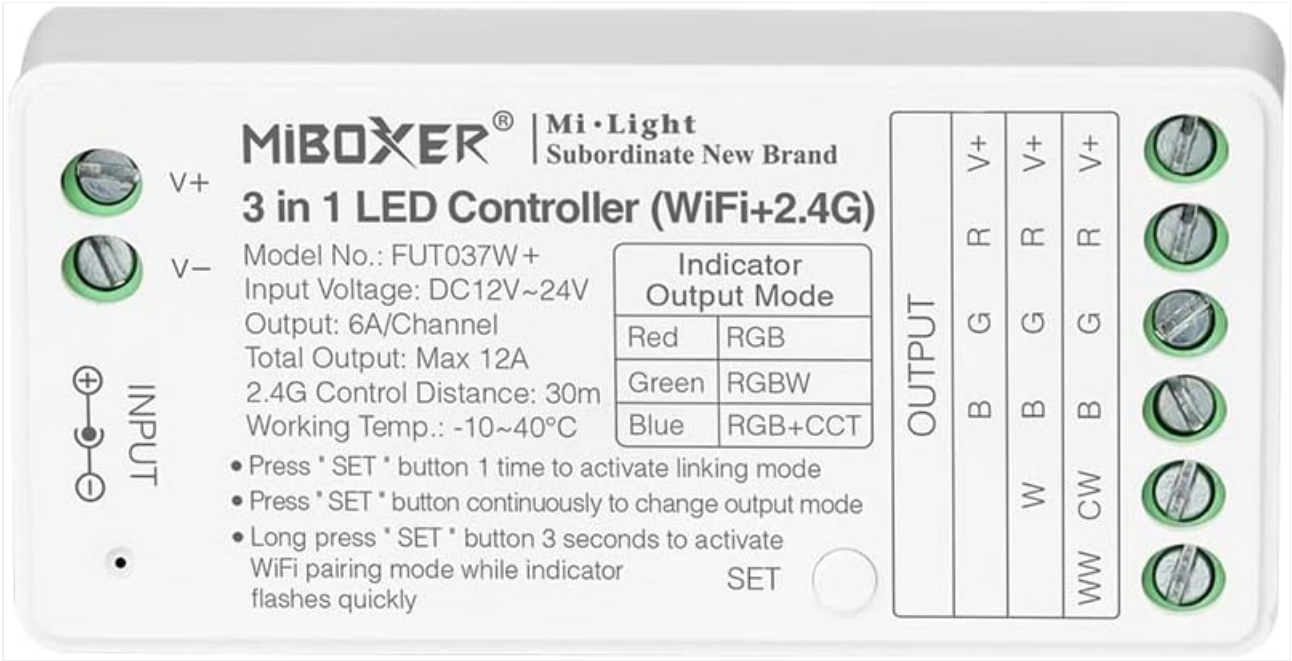


Image: The controller showing input (V+, V-) and output terminals (V+, R, G, B, W, CW, WW) for connecting to power supply and LED strips.

- **Input:** Connect your DC12~24V power supply to the V+ and V- terminals on the input side.
- **Output:** Connect your LED strip to the corresponding V+ and channel terminals (R, G, B, W, CW, WW) on the output side.
- **RGB Strip (4-wire):** Connect to V+, R, G, B.

- **RGBW Strip (5-wire):** Connect to V+, R, G, B, W.
- **RGB+CCT Strip (6-wire):** Connect to V+, R, G, B, CW, WW.

5.2 App Connection (Tuya Smart)

The FUT037W+ controller connects directly to your smartphone via the "Tuya Smart" app, eliminating the need for a separate gateway.

1. Download the "Tuya Smart" app from your smartphone's app store (iOS or Android).
2. Register or log in to your Tuya Smart account.
3. Ensure your phone's Bluetooth and Wi-Fi are enabled.
4. Power on the LED strip controller.
5. In the Tuya Smart app, tap the "+" icon to add a device. The app should automatically discover the controller via Bluetooth.
6. If not automatically discovered, select "Lighting" or "Light Source (Wi-Fi)" and follow the in-app instructions to put the device into pairing mode. To activate WiFi pairing mode, long press the "SET" button on the controller for 3 seconds until the indicator flashes quickly.
7. Follow the prompts to connect the controller to your 2.4GHz Wi-Fi network.

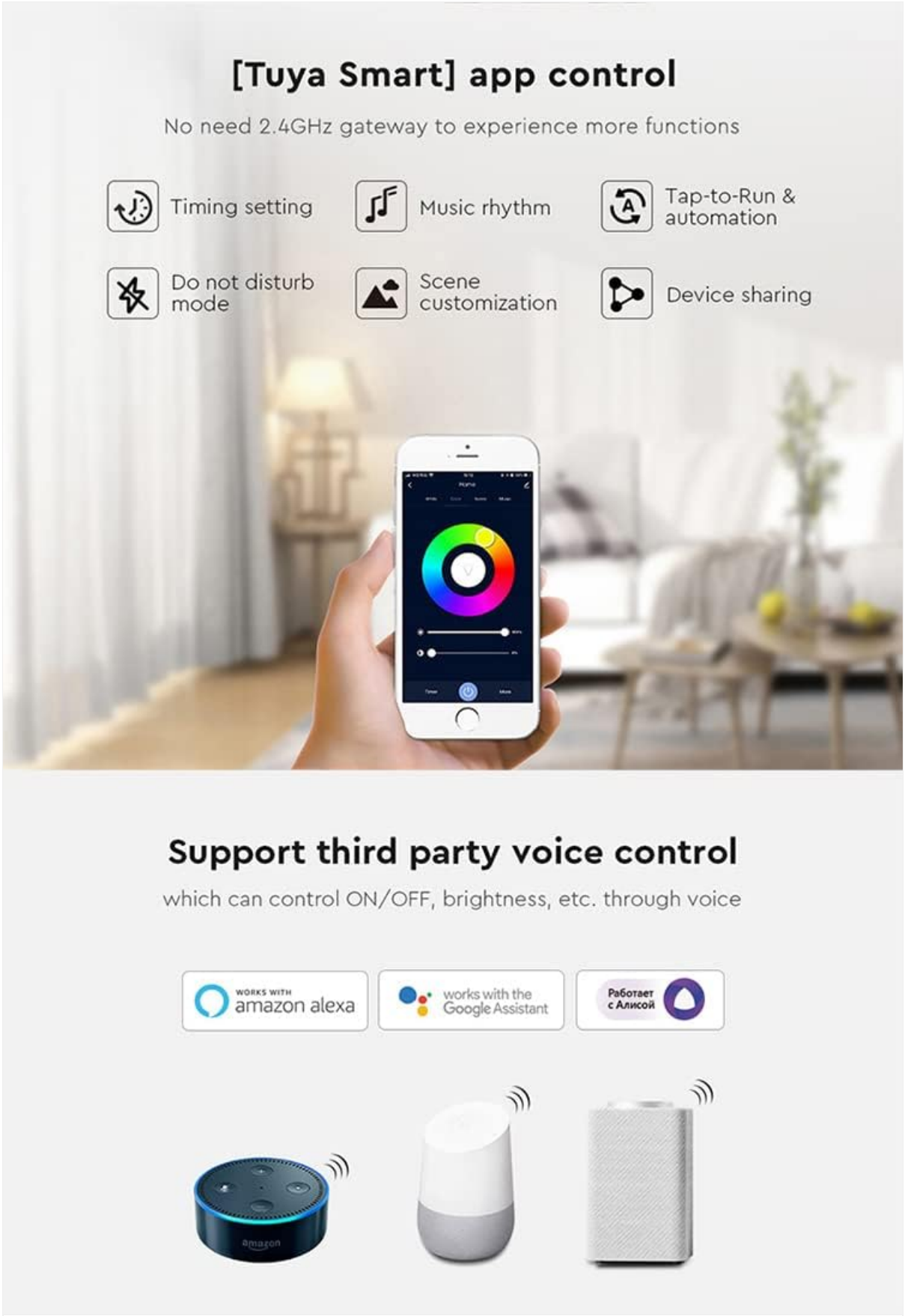


Image: Screenshot of the Tuya Smart app interface demonstrating color wheel control and various smart features like timing, music rhythm, and scene customization.

5.3 Voice Control Setup (Alexa/Google Home)

Once the controller is connected to the Tuya Smart app, you can link it to Amazon Alexa or Google Home for voice control.

1. Open the Amazon Alexa app or Google Home app.

2. Navigate to the "Skills & Games" section (Alexa) or "Works with Google" section (Google Home).
3. Search for and enable the "Tuya Smart" skill/service.
4. Link your Tuya Smart account when prompted.
5. Discover devices. Your LED strip controller should appear.
6. You can now use voice commands to control your LED strip, such as "Alexa, turn on the living room light" or "Hey Google, set the kitchen light to blue."

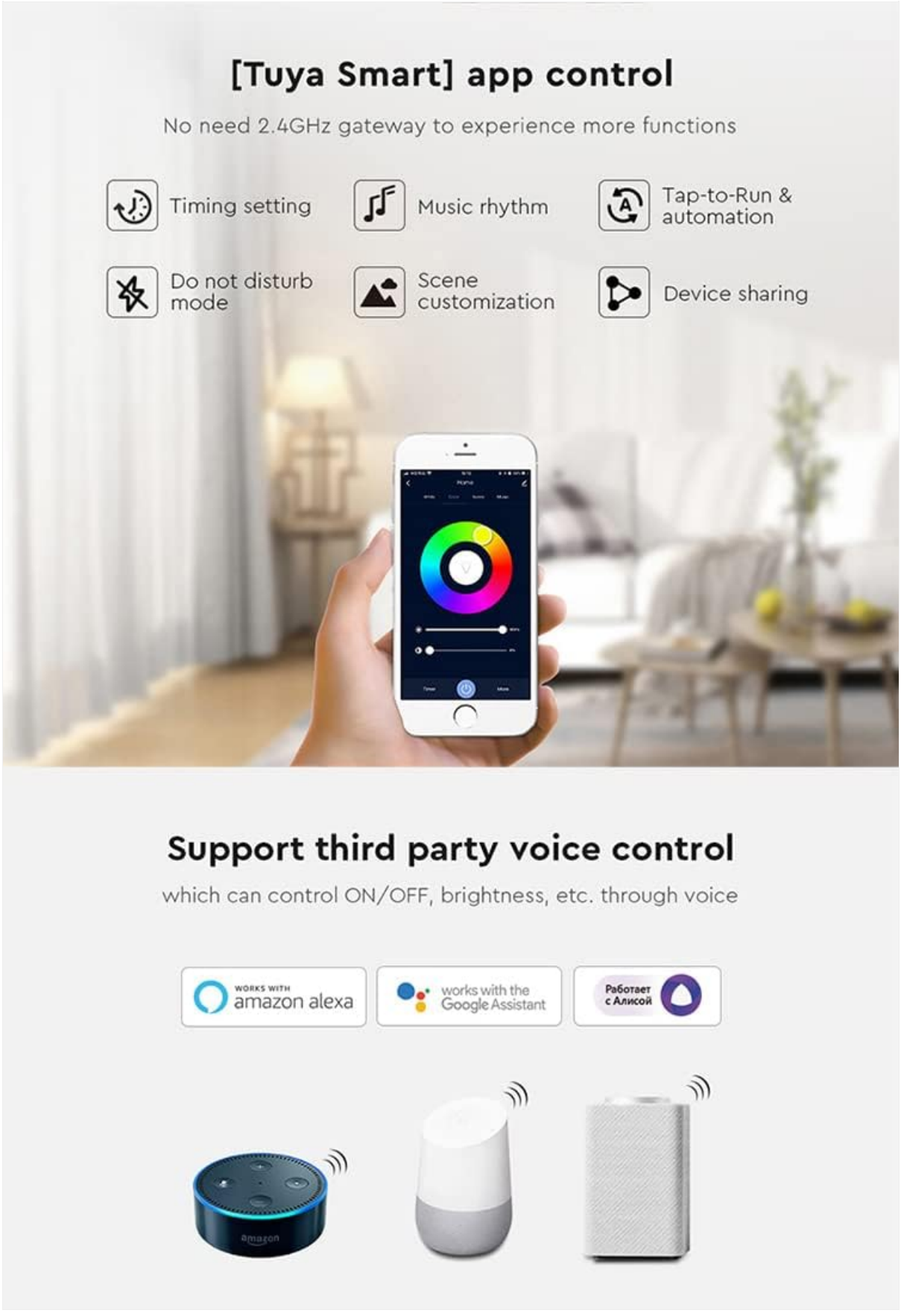


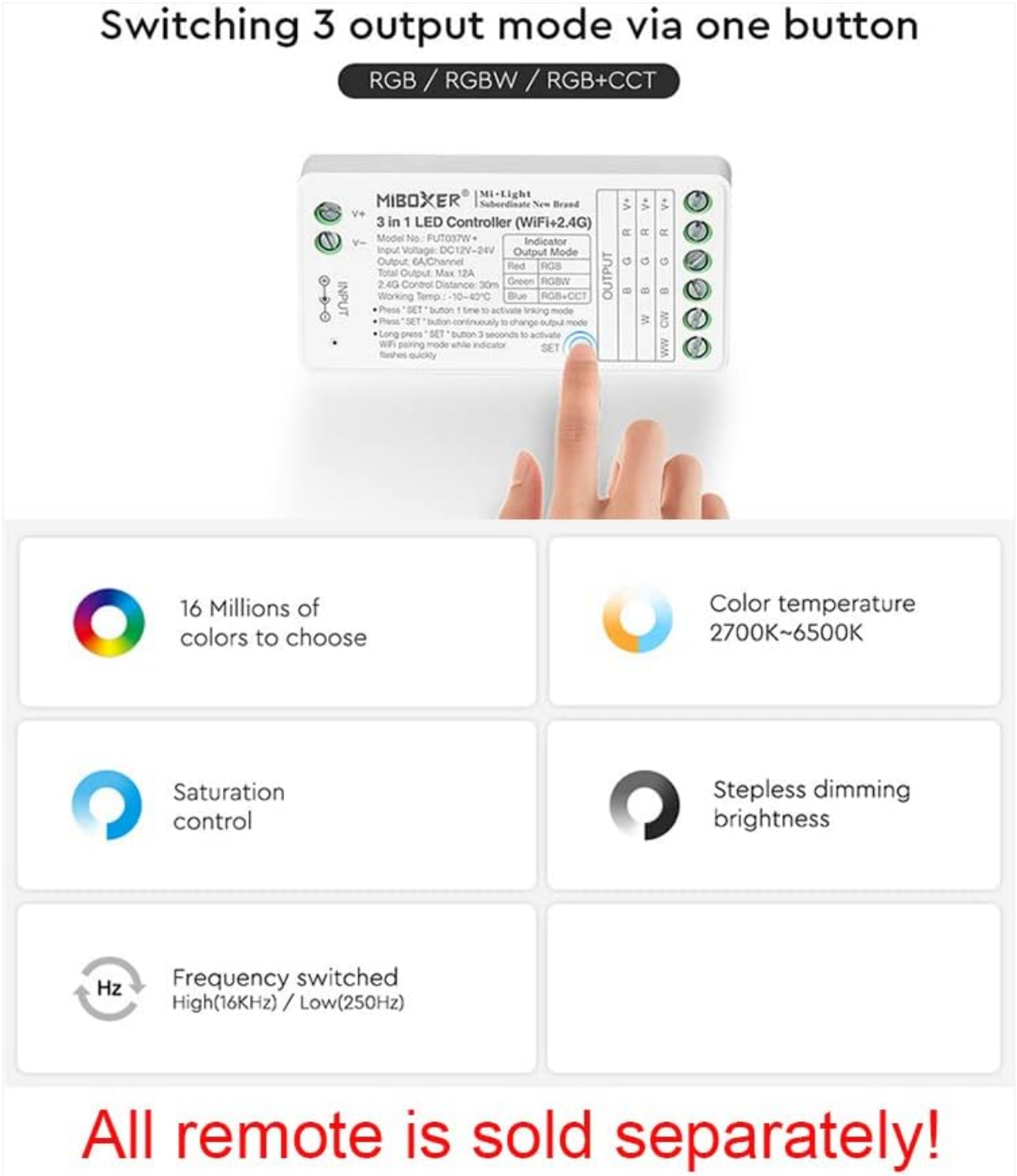
Image: Icons representing compatibility with Amazon Alexa and Google Assistant, along with images of smart speakers.

6. Operation

6.1 App Control (Tuya Smart)

The Tuya Smart app provides comprehensive control over your LED strip:

- **Color Selection:** Choose from 16 million colors using the color wheel.
- **Brightness Adjustment:** Stepless dimming to set the desired light intensity.
- **Color Temperature:** Adjust white light from 2700K (warm white) to 6500K (cool white) for CCT strips.
- **Modes:** Select from various dynamic modes (e.g., flashing, fading) or create custom scenes.
- **Timing Setting:** Schedule on/off times for your lights.
- **Music Rhythm:** Sync lights with music.
- **Device Sharing:** Share control of the device with family members.
- **Do Not Disturb Mode:** Prevent lights from turning on unexpectedly.



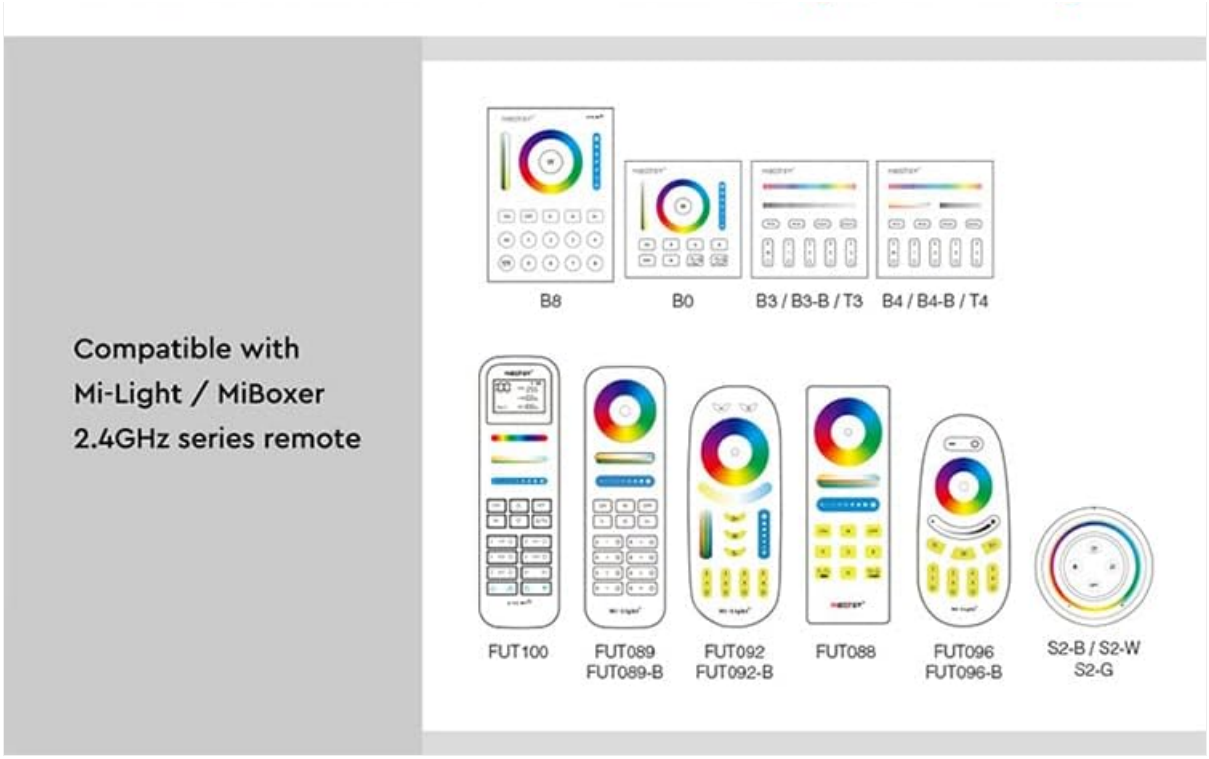
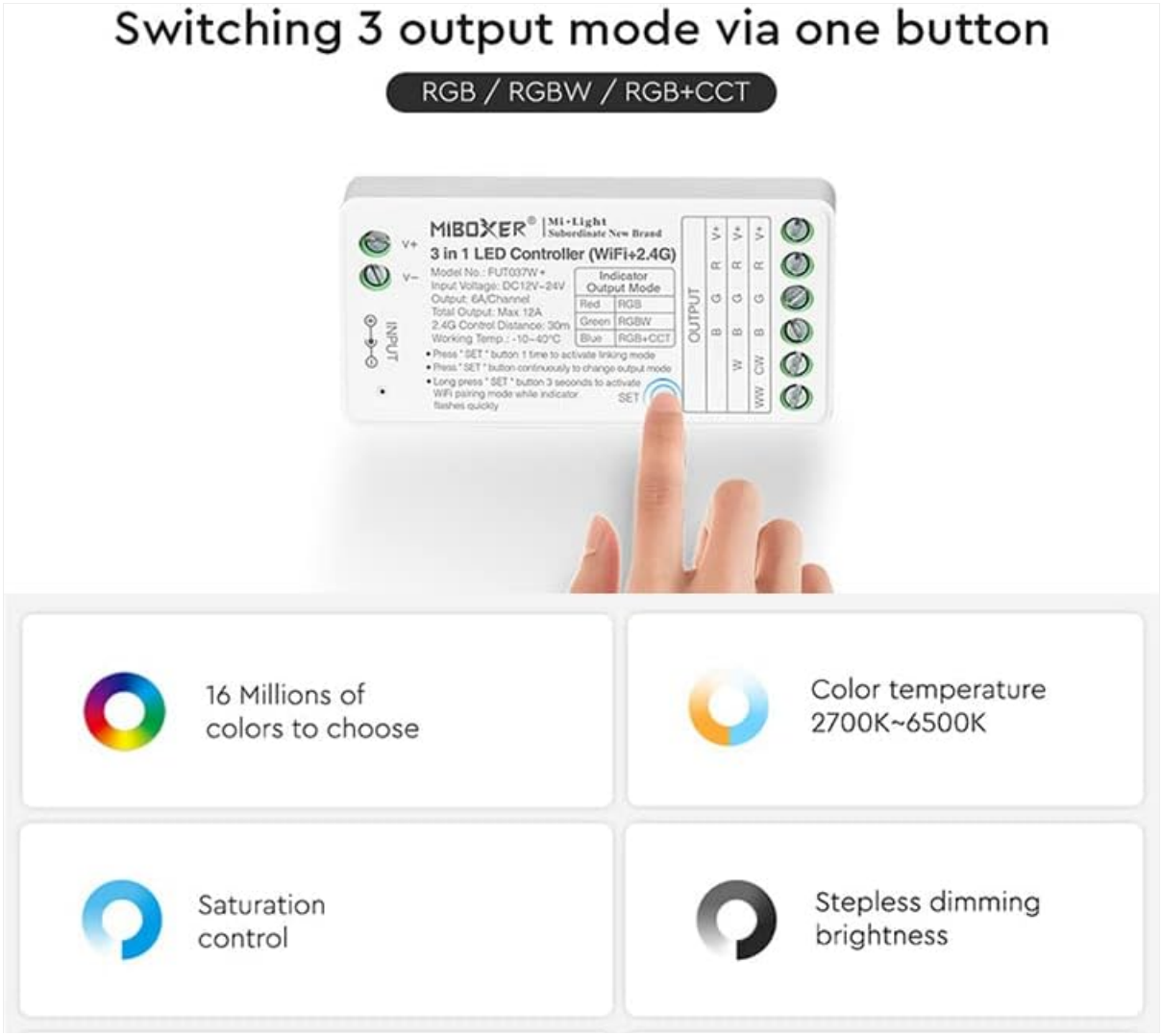


Image: Visual representation of key features controllable via the app, including 16 million colors, color temperature (2700K-6500K), saturation control, stepless dimming, and frequency switching (16KHz/250Hz).

6.2 Remote Control (Sold Separately)

The FUT037W+ controller is compatible with various Miboxer/Milight 2.4GHz remote controllers. These remotes offer an alternative method of control, often providing quick access to common functions.



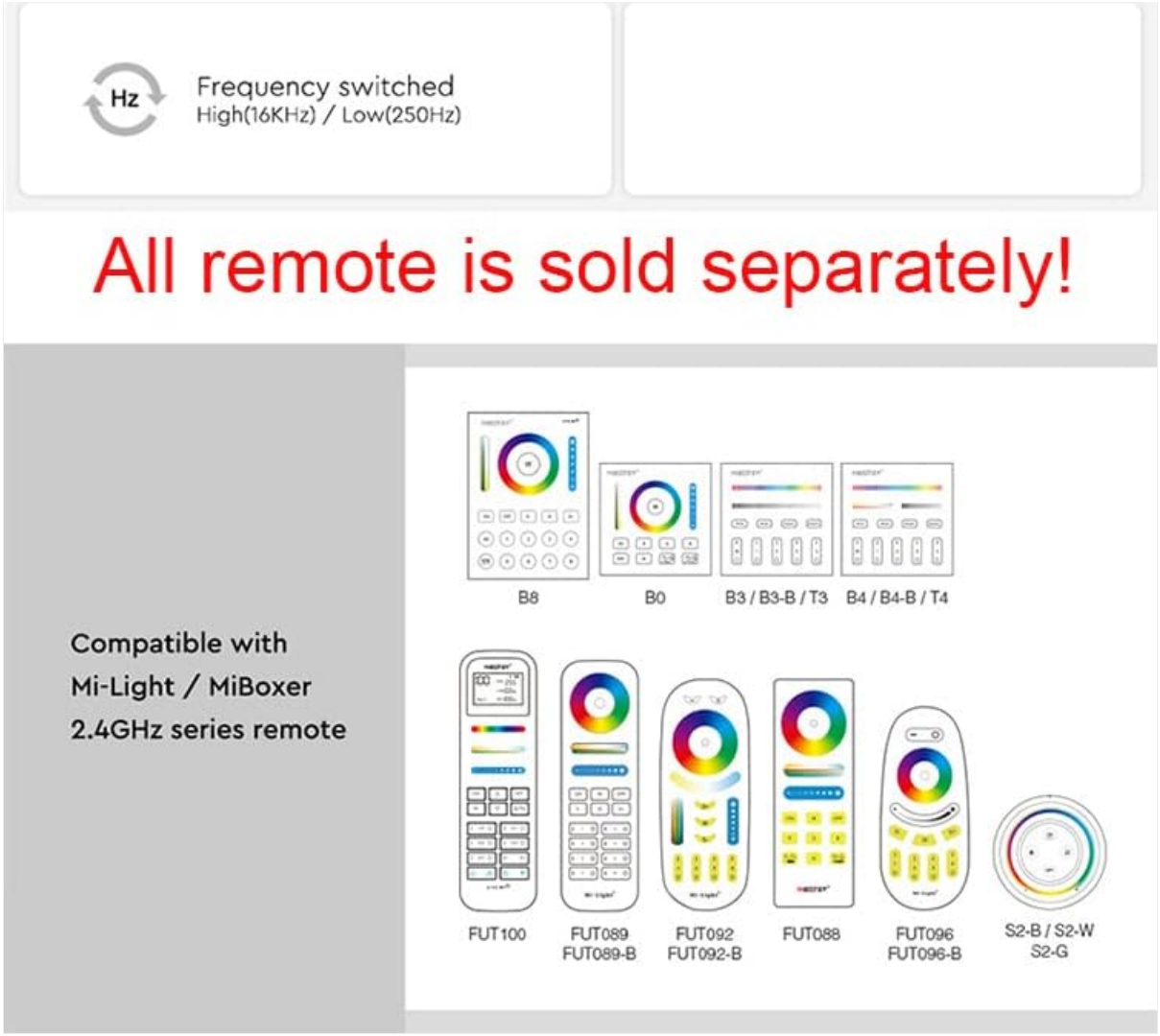


Image: A selection of compatible Miboxer/Milight 2.4GHz remote controllers (e.g., B0, B3, B4, B8, FUT100, FUT099-B, FUT092, FUT089, FUT096, S2-B/S2-W, S2-G).

Signal Transmitting & Modes Synchronization: One controller can transmit signals from the remote to other controllers within 30m, allowing for synchronized control of multiple LED strips even if they are started at different times, under the same dynamic mode.

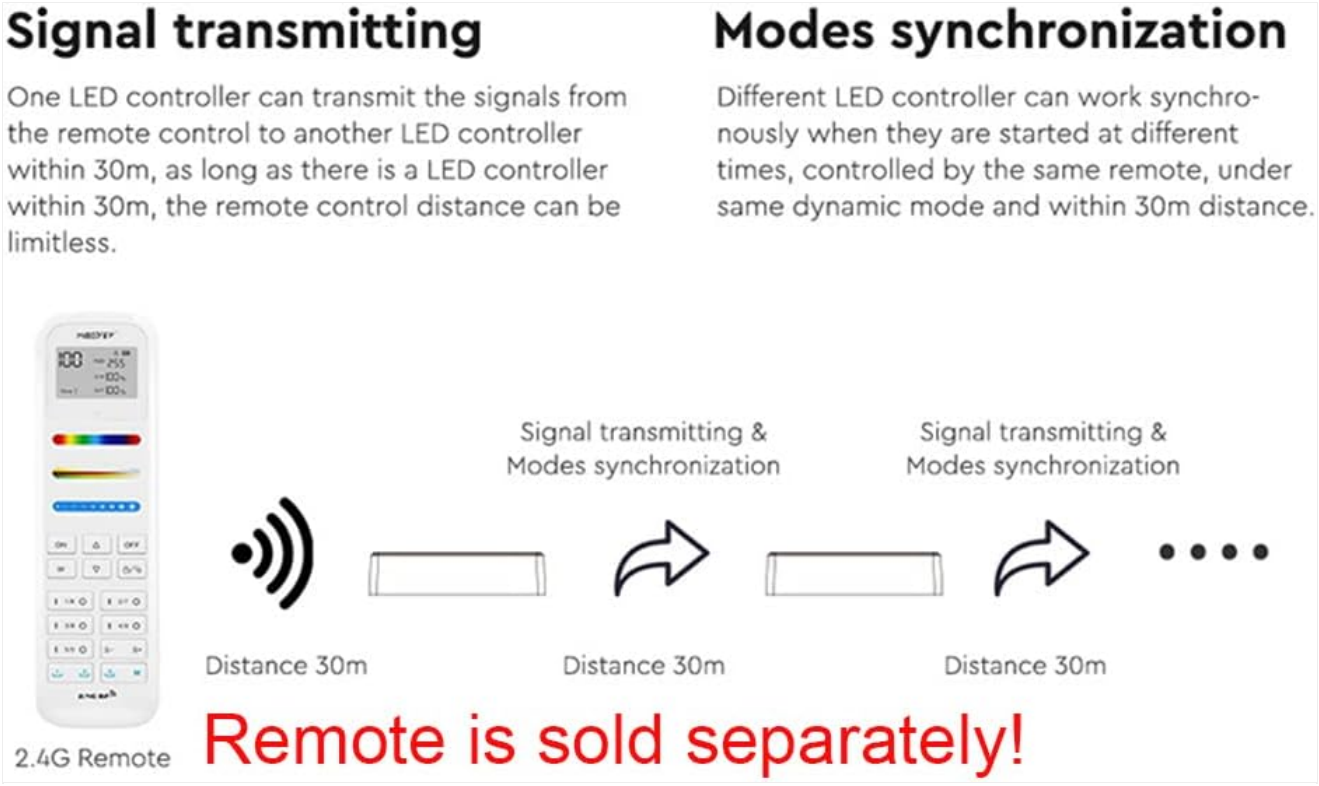


Image: Diagram illustrating how one remote can control multiple controllers in sequence, with each controller transmitting the signal to the next within a 30m range, enabling limitless control distance.

6.3 Output Mode Switching

The FUT037W+ controller supports three output modes (RGB, RGBW, RGB+CCT) to match your LED strip type. You can switch between these modes using the "SET" button on the controller.

- **Press "SET" button 1 time:** Activates linking mode (for remote control pairing).
- **Press "SET" button continuously:** Cycles through the output modes (RGB, RGBW, RGB+CCT). The indicator light will change color to show the current mode:
  - Red: RGB Mode
  - Green: RGBW Mode
  - Blue: RGB+CCT Mode
- **Long press "SET" button 3 seconds:** Activates WiFi pairing mode (indicator flashes quickly).



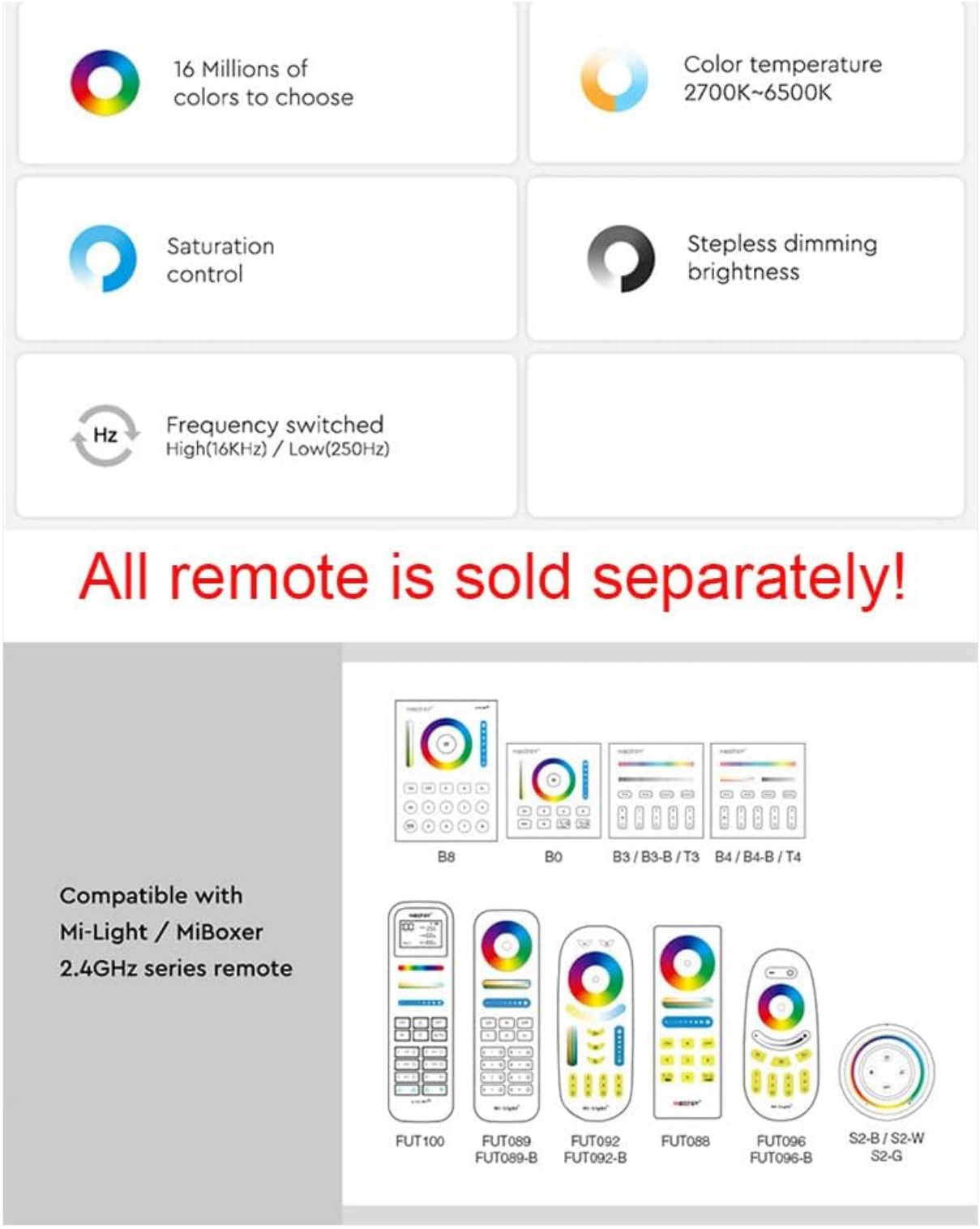


Image: Close-up of the controller showing the SET button and the indicator light, with a table explaining the indicator colors for RGB, RGBW, and RGB+CCT output modes.

6.4 Memory Function

The LED strip controller features a memory function. When the power is turned off and then back on, the LED strip will resume its last set color, brightness, and mode, eliminating the need to reconfigure settings.

7. Troubleshooting

Problem	Possible Cause	Solution

LED strip not lighting up.	No power to controller; Incorrect wiring; Faulty LED strip.	Check power supply connection and ensure it's plugged in. Verify all wiring connections (V+, V-, R, G, B, etc.) are secure and correct. Test LED strip with another power source if possible.
Controller not connecting to Tuya Smart app.	Incorrect Wi-Fi band (not 2.4GHz); Controller not in pairing mode; Weak Wi-Fi signal; App issues.	Ensure your Wi-Fi network is 2.4GHz. Long press the "SET" button for 3 seconds until the indicator flashes quickly to enter pairing mode. Move controller closer to router. Restart app and controller.
Voice control not working.	Tuya Smart skill not enabled/linked; Incorrect device name in Alexa/Google Home; Internet connectivity issues.	Verify "Tuya Smart" skill is enabled and linked in your Alexa/Google Home app. Ensure the device name is recognizable. Check your internet connection.
Remote control not working.	Remote not paired; Remote battery low; Out of range.	Ensure the remote is compatible and paired with the controller (press SET button once to activate linking mode, then pair remote). Replace remote battery. Ensure remote is within 30m range.
Incorrect colors or modes displayed.	Incorrect output mode selected on controller.	Continuously press the "SET" button to cycle through RGB, RGBW, and RGB+CCT modes until the correct mode for your LED strip is selected (check indicator color).

8. Maintenance

- Keep the controller clean by wiping it with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Ensure proper ventilation around the controller to prevent overheating.
- Regularly check wiring connections for looseness or damage.
- Store the device in a cool, dry place when not in use for extended periods.

9. Warranty and Support

For warranty information and technical support, please contact LGIDTECH customer service or refer to the official LGIDTECH website. Please have your product model number (FUT037W+) and purchase details ready when contacting support.
Manufacturer: Miboxer
Brand: LGIDTECH

© 2024 LGIDTECH. All rights reserved.